

# NACOmatic

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## GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

## CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

**CRITICAL** information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

**FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE:** <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626  
800 Independence Ave., SW  
Washington, DC 20591  
Telephone 1-866-295-8236  
Fax 202-267-5322  
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10

\*Including changes to preferred routes and graphic depictions on charts.

**FOR CHARTING ERRORS CONTACT:**

FAA, National Aeronautical Charting Office, ATO-W  
SSMC-4 Sta. #2335  
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Email [9-AMC-Aerochart@faa.gov](mailto:9-AMC-Aerochart@faa.gov)

Frequently asked questions (FAQs) are answered on our web site at [www.naco.faa.gov](http://www.naco.faa.gov).  
See the FAQs prior to contact via toll free number.

**FOR PROCUREMENT CONTACT:**

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Glenn Dale, MD 20769-9700  
Online at [www.naco.faa.gov](http://www.naco.faa.gov)  
Email [9-AMC-Chartsales@faa.gov](mailto:9-AMC-Chartsales@faa.gov)  
Telephone 1-800-638-8972  
Fax 301-436-6829  
or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.



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## ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control Center	CGAS	Coast Guard Air Station
acft	aircraft	CIV	Civil
ADCC	Air Defense Control Center	clsd	closed
AER	approach end rwy	comd	command
AFB	Air Force Base	CONUS	Continental United States
AFHP	Air Force Heliport	CSTMS	Customs
afld	airfield	ctc	contact
AFOD	US Army Flight Operations Detachment	ctl	control
AFRC	Armed Forces Reserve Center/Air Force Reserve Command	dalgt	daylight
AFSS	Automated Flight Service Station	Dec	December
AG	Agriculture	DIAP	DoD Instrument Approach Procedure
A-GEAR	Arresting Gear	DoD	Department of Defense
AGL	above ground level	DSN	Defense Switching Network (Telephone)
AHP	Army heliport	dspld	displaced
ALS	Approach Light System	durn	duration
alt	altitude	eff	effective
AMC	Air Mobility Command	emerg	emergency
ANGS	Air National Guard Station	EOR	End of Runway
apch	approach	ETA	Estimated Time of Arrival
Apr	April	ETD	Estimated Time of Departure
APU	Auxiliary Power Unit	exc	except
ARB	Air Reserve Base	extd	extend
arpt	airport	FBO	fixed-base operator
ARS	Air Reserve Station	Feb	February
AS	Air Station	fld	field
ASDE-X	Airport Surface Detection Equipment—Model X	FLIP	Flight Information Publication
ASU	Aircraft Starting Unit	flt	flight
ATC	Air Traffic Control	flw	follow
Aug	August	Fri	Friday
AUW	All Up Weight (gross weight)	FSS	Flight Service Station
avbl	available	GA	glide angle
bcn	beacon	GCA	Ground Controlled Approach
blo	below	GS	glide slope
		haz	hazard
		HQ	Headquarters

CONTINUED ON NEXT PAGE



CONTINUED FROM PRECEDING PAGE

hr	hour	npi	non precision instrument
IAP	Instrument Approach Procedure	NS ABTMT	Noise Abatement
ICAO	International Civil Aviation Organization	NSTD	nonstandard
IFR	Instrument Flight Rules	ntc	notice
ILS	Instrument Landing System	obsn	observation
IM	Inner Marker	Oct	October
IMG	Immigration	OLF	Outlying Field
incr	increase	opr	operate, operator, operational
indef	indefinite	ops	operations
ints	intensity	OTS	out of service
invo	in the vicinity of	ovrn	overrun
IMC	Instrument Meteorological Conditions	PAEW	personnel and equipment working
Jan	January	pat	pattern
JASU	Jet Aircraft Starting Unit	p-line	power line
JOAP	Joint Oil Analysis Program	PMSV	Pilot-to-Metro Service
JOSAC	Joint Operational Support Airlift Center	POL	Petrol, Oils and Lubricants
JRB	Joint Reserve Base	PPR	prior permission required
Jul	July	PRM	Precision Runway Monitoring
Jun	June	PTD	Pilot to Dispatcher
Kt	Knots	RAMCC	Regional Air Movement Control Center
LAA	Local Airport Advisory	req	request
LAHSO	Land and Hold Short Operations	rgt tfc	right traffic
lbs	pounds	RON	Remain Overnight
ldg	landing	rqr	require
lgt	lighted	rstd	restricted
lgts	lights	RSRS	reduced same runway separation
LMM	Compass locator at Middle Marker ILS	rw	runway
LOC	Localizer	Sat	Saturday
LOM	Compass locator at Outer Marker ILS	SELF	Strategic Expeditionary Landing Field
ltd	limited	Sep	September
MACC	Military Area Control Center	SFA	Single Frequency Approach
Mar	March	sfc	surface
MCAF	Marine Corps Air Facility	SFRA	Special Flight Rules Area
MICALF	Marine Corps Auxiliary Landing Field	SOAP	Spectrometric Oil Analysis Program
MCAS	Marine Corps Air Station	SOF	Supervisor of Flying
MCB	Marine Corps Base	SPB	Seaplane Base
med	medium	SR	sunrise
METRO	Pilot-to-Metro voice call	SS	sunset
Mil	military	std	standard
min	minute	Sun	Sunday
MLS	Microwave Landing System	svc	service
MM	Middle Marker of ILS	tfc	traffic
Mon	Monday	thld	threshold
MP	Maintenance Period	Thu	Thursday
MSL	mean sea level	tkf	take-off
MSAW	minimum safe altitude warning	tmpry	temporary
NAAS	Naval Auxiliary Air Station	tran	transient
NADC	Naval Air Development Center	Tue	Tuesday
NADEP	Naval Air Depot	twr	tower
NAEC	Naval Air Engineering Center	twy	taxiway
NAES	Naval Air Engineering Station	UC	Under Construction
NAF	Naval Air Facility	USA	United States Army
NALCO	Naval Air Logistics Control Office	USAF	United States Air Force
NALO	Navy Air Logistics Office	USCG	United States Coast Guard
NALF	Naval Auxiliary Landing Field	USN	United States Navy
NAS	Naval Air Station	V	Defense Switching Network (telephone, formerly AUTOVON)
NAWC	Naval Air Warfare Center	VFR	Visual Flight Rules
NAWS	Naval Air Weapons Station	VIP	Very Important Person
ngt	night	VMC	Visual Meteorological Conditions
NOLF	Naval Outlying Field	Wed	Wednesday
Nov	November	wx	weather



# DIRECTORY LEGEND

## SAMPLE

① CITY NAME  
 ② AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE  
 ③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER  
 ④ ⑤ ⑥ ⑦ ⑧ ⑨ H-46, L-19C IAP, DIAP, AD

⑩ RWY 18-36: H12004X200 (ASPH-CONC-GRVD)  
 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL  
 RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.  
 Thld displcd 300'. Trees. Rgt tfc. 0.3% up.  
 RWY 36: ALSF1. 0.4% down.  
 RWY 09-27: H6000X150 (ASPH) MIRL  
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T

⑪ LAND AND HOLD SHORT OPERATIONS  
 LANDING HOLD SHORT POINT DIST AVBL  
 RWY 18 09-27 6500  
 RWY 36 09-27 5400

⑫ RUNWAY DECLARED DISTANCE INFORMATION  
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504  
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

⑬ ARRESTING GEAR/SYSTEM  
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')  
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

⑭ MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on  
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑

⑳ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX  
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿

㊱ AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute  
 Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service  
 (ADCUS) avbl.

㊲ MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15  
 minutes prior to ldg and after dep. Limited tran parking.

㊳ WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS.

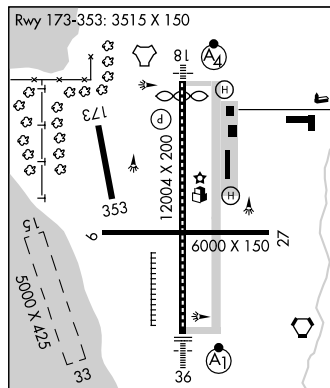
㊴ COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2  
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2  
 NAME RCO 112.2T 112.1R (NAME RADIO)  
 ⑲ NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)  
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55  
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

㊵ AIRSPACE: CLASS B See VFR Terminal Area Chart.

㊶ RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS.  
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.  
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.  
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.  
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.  
 ASR/PAR (1200-0400Z†)

㊷ COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

• • • • •  
 HELIPAD H1: H100X75 (ASPH)  
 HELIPAD H2: H60X60 (ASPH)  
 HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.  
 • • • • •  
 187 TPA 1000(813)  
 WATERWAY 15-33: 5000X425 (WATER)  
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of  
 arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.  
 All mileages are nautical unless otherwise noted.

All times are Coordinated Universal Time (UTC) except as noted.

All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.

The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).



10

# SKETCH LEGEND

## RUNWAYS/LANDING AREAS

Hard Surfaced .....	
Metal Surface .....	
Sod, Gravel, etc. ....	
Light Plane, ....	
Ski Landing Area or Water	
Under Construction .....	
Closed .....	
Helicopter Landings Area .....	
Displaced Threshold .....	
Taxiway, Apron and Stopways ..	

## MISCELLANEOUS BASE AND CULTURAL FEATURES

Buildings .....	
Power Lines .....	
Fence .....	
Towers .....	
Tanks .....	
Oil Well .....	
Smoke Stack .....	
Obstruction .....	
Controlling Obstruction .....	
Trees .....	
Populated Places .....	
Cuts and Fills .....	
Cliffs and Depressions ..	
Ditch .....	
Hill .....	

## RADIO AIDS TO NAVIGATION

VORTAC ...		VOR .....	
VOR/DME ...		NDB .....	
TACAN ...		NDB/DME ....	

## MISCELLANEOUS AERONAUTICAL FEATURES

Airport Beacon .....	
Wind Cone .....	
Landing Tee .....	
Tetrahedron .....	
Control Tower .....	

## APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g. (A1) Negative symbology, e.g., (A1) indicates Pilot Controlled Lighting (PCL).

Runway Centerline Lighting .....	
(A) Approach Lighting System ALSF-2 ..	
(A1) Approach Lighting System ALSF-1 ..	
(A2) Short Approach Lighting System SALS/SALSF .....	
(A3) Simplified Short Approach Lighting System (SSALR) with RAIL .....	
(A4) Medium Intensity Approach Lighting System (MALSR and MALSF)/(SSALS and SSALF) .....	
(A5) Medium Intensity Approach Lighting System (MALSR) and RAIL .....	
(+) Omnidirectional Approach Lighting System (ODALS) .....	
(D) Navy Parallel Row and Cross Bar ..	
(F) Air Force Overrun .....	
(V) Visual Approach Slope Indicator with Standard Threshold Clearance provided	
(V2) Pulsating Visual Approach Slope Indicator (PVASI)	
(V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft	
(V4) Tri-color Visual Approach Slope Indicator (TRCV)	
(V5) Approach Path Alignment Panel (APAP)	
(P) Precision Approach Path Indicator (PAPI)	



## LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Nav aids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

### ① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

### ② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

### ③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

### ④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

A	US Army	MC	Marine Corps
AFRC	Air Force Reserve Command	N	Navy
AF	US Air Force	NAF	Naval Air Facility
ANG	Air National Guard	NAS	Naval Air Station
AR	US Army Reserve	NASA	National Air and Space Administration
ARNG	US Army National Guard	P	US Civil Airport Wherein Permit Covers
CG	US Coast Guard		Use by Transient Military Aircraft
CIV/MIL	Joint Use Civil/Military	PVT	Private Use Only (Closed to the Public)
DND	Department of National Defense Canada		

### ⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

### ⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.



# **7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)**

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

# **8 CHARTS**

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

# **9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS**

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

# **10 AIRPORT SKETCH**

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbolology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

# **11 ELEVATION**

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00'". When elevation is below sea level a minus "–" sign will precede the figure.

# **12 ROTATING LIGHT BEACON**

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

# **13 SERVICING—CIVIL**

S1: Minor airframe repairs.	S5: Major airframe repairs.
S2: Minor airframe and minor powerplant repairs.	S6: Minor airframe and major powerplant repairs.
S3: Major airframe and minor powerplant repairs.	S7: Major powerplant repairs.
S4: Major airframe and major powerplant repairs.	S8: Minor powerplant repairs.

# **14 FUEL**

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C.
100	Grade 100 gasoline (Green)	J4 (JP4)	(JP–4 military specification) FP** minus 58° C.
100LL	100LL gasoline (low lead) (Blue)	J5 (JP5)	(JP–5 military specification) Kerosene with FS–11, FP** minus 46°C.
115	Grade 115 gasoline (115/145 military specification) (Purple)	J8 (JP8)	(JP–8 military specification) Jet A–1, Kerosene with FS–II*, FP** minus 47°C.
A	Jet A, Kerosene, without FS–II*, FP** minus 40° C.	J8+100	(JP–8 military specification) Jet A–1, Kerosene with FS–II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP–8.
A+	Jet A, Kerosene, with FS–II*, FP** minus 40°C.	J	(Jet Fuel Type Unknown)
A1	Jet A–1, Kerosene, without FS–II*, FP** minus 47°C.	MOGAS	Automobile gasoline which is to be used as aircraft fuel.
A1+	Jet A–1, Kerosene with FS–II*, FP** minus 47° C.		
B	Jet B, Wide-cut, turbine fuel without FS–II*, FP** minus 50° C.		

\*(Fuel System Icing Inhibitor)

\*\*(Freeze Point)

**NOTE:** Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

# **15 OXYGEN—CIVIL**

OX 1 High Pressure	OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure	OX 4 Low Pressure—Replacement Bottles

# **16 TRAFFIC PATTERN ALTITUDE**

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.



**17 AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS**

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)

407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL)

407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

407-975-1760

Southwest East Sector (OK and eastern TX)

407-975-1840

Southwest West Sector (Western TX, NM and AZ)

407-975-1820

Pacific Sector (WA, OR, CA, HI and AK)

407-975-1800

**18 CERTIFICATED AIRPORT (14 CFR PART 139)**

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS  
AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	X			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	X	X		X
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	X	X	X	

**14 CFR—PART 139 CERTIFICATED AIRPORTS**

## INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
A	1	<90'	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H <sub>2</sub> O
B	1 or 2	≥90', <126' ----- ≥126', <159'	≥5 ----- <5	Index A + 1500 gal H <sub>2</sub> O
C	2 or 3	≥126', <159' ----- ≥159', <200'	≥5 ----- <5	Index A + 3000 gal H <sub>2</sub> O
D	3	≥159', <200' ----- >200'	  <5	Index A + 4000 gal H <sub>2</sub> O
E	3	≥200'	≥5	Index A + 6000 gal H <sub>2</sub> O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H<sub>2</sub>O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

**19 NOTAM SERVICE**

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and



ATC Procedures for detailed description of NOTAM's. Current NOTAMS are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMS are available using the DoD Internet NOTAM Distribution System (DINS) [www.notams.jcs.mil](http://www.notams.jcs.mil).

## 20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

## 21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

### RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

### RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

### RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking, landing mats, membranes	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	(PEM)—Part concrete, part asphalt	(TURF)—Turf
(DIRT)—Dirt	(PFC)—Porous friction courses	(TRTD)—Treated
(GRVD)—Grooved		(WC)—Wire combed

### RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757, KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination landing gear (C5).



AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
  - R — Rigid
  - F — Flexible
- (3) The pavement subgrade category:
  - A — High
  - B — Medium
  - C — Low
  - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
  - W — High, no limit
  - X — Medium, limited to 217 psi
  - Y — Low, limited to 145 psi
  - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
  - T — Technical evaluation
  - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

#### RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.



## VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIL	APAP on left side of runway	PNIR	APAP on right side of runway
PAPI—Precision Approach Path Indicator			
P2L	2-identical light units placed on left side of runway	P4L	4-identical light units placed on left side of runway
P2R	2-identical light units placed on right side of runway	P4R	4-identical light units placed on right side of runway
PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.			
PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway
SAVASI—Simplified Abbreviated Visual Approach Slope Indicator			
S2L	2-box SAVASI on left side of runway	S2R	2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visual Approach Slope Indicator			
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

## PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07-25, MALSR Rwy 07, and VASI Rwy 07-122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

## RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

## RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

## LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

## RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

## 22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:



## BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-9	Rotary friction brake.
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
BAK-12B	Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake.
E28	Rotary Hydraulic (Water Brake).
M21	Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.)

## UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

## FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
44B-3H	Rotary Hydraulic (Water Brake)	
CHAG	Chain	E-5

## UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

## OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft.

**23 MILITARY SERVICE**

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

**24 JET AIRCRAFT STARTING UNITS (JASU)**

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

## ELECTRICAL STARTING UNITS:

A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw



MD-4	AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire
AIR STARTING UNITS	
AM32-95	150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
AM32A-95	150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)
LASS	150 +/- 5 lb/min @ 49 +/- 2 psia
MA-1A	82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
MC-1	15 cfm, 3500 psia
MC-1A	15 cfm, 3500 psia
MC-2A	15 cfm, 200 psia
MC-11	8,000 cu in cap, 4000 psig, 15 cfm
COMBINED AIR AND ELECTRICAL STARTING UNITS:	
AGPU	AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level
AM32A-60*	AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw
AM32A-60A	AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
AM32A-60B*	AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.	
USN JASU	
ELECTRICAL STARTING UNITS:	
NC-8A/A1	DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.
NC-10A/A1/B/C	DC: 750 amp constant, 1000 amp intermittent, 28v; AC: 90 kva, 115/200v, 3 phase, 400 Hz.
AIR STARTING UNITS:	
GTC-85/GTE-85	120 lbs/min @ 45 psi.
MSU-200NAV/A/U47A-5	204 lbs/min @ 56 psia.
WELLS AIR START SYSTEM	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.
COMBINED AIR AND ELECTRICAL STARTING UNITS:	
NCPP-105/RCPT	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.
JASU (ARMY)	
59B2-1B	28v, 7.5 kw, 280 amp.
OTHER JASU	
ELECTRICAL STARTING UNITS (DND):	
CE12	AC 115/200v, 140 kva, 400 Hz, 3 phase
CE13	AC 115/200v, 60 kva, 400 Hz, 3 phase
CE14	AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15	DC 22-35v, 500 amp continuous 1100 amp intermittent
CE16	DC 22-35v, 500 amp continuous 1100 amp intermittent soft start
AIR STARTING UNITS (DND):	
CA2	ASA 45.5 psig, 116.4 lb/min
COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)	
CEA1	AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp AIR 112.5 lb/min, 47 psig
ELECTRICAL STARTING UNITS (OTHER)	
C-26	28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
C-26-B, C-26-C	28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
E3	DC 28v/10kw
AIR STARTING UNITS (OTHER):	
A4	40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
MA-1	150 Air HP, 115 lb/min 50 psia
MA-2	250 Air HP, 150 lb/min 75 psia
CARTRIDGE:	
MXU-4A	USAF



**(25) FUEL—MILITARY**

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at [www.desc.dla.mil/Static/ProductsAndServices.asp](http://www.desc.dla.mil/Static/ProductsAndServices.asp); click on the Commercial Airports button.

See legend item 14 for fuel code and description.

**(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY****CODE**

ADI	Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.
W	Water Thrust Augmentation—Jet Aircraft.
WAI	Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.
SP	Single Point Refueling.
PRESAIR	Air Compressors rated 3,000 PSI or more.
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

**OXYGEN:**

LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
ORXB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)
OX	Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB	Low and high pressure oxygen servicing and replacement bottles;
LPOXRB	Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

**NITROGEN:**

LPNIT	Low pressure nitrogen servicing.
HPNIT	High pressure nitrogen servicing.
LHNIT	Low and high pressure nitrogen servicing.

**(27) OIL—MILITARY**

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TYPE
O-113	1065, Reciprocating Engine Oil (MIL-L-6082)
O-117	1100, Reciprocating Engine Oil (MIL-L-6082)
O-117+	1100, O-117 plus cyclohexanone (MIL-L-6082)
O-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
O-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
O-132	1005, Jet Engine Oil (MIL-L-6081)
O-133	1010, Jet Engine Oil (MIL-L-6081)
O-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
O-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
O-155	None, MIL-L-6086C, Aircraft, Medium Grade
O-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines
JOAP/SOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)

**(28) TRANSIENT ALERT (TRAN ALERT)—MILITARY**

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military



aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

## 29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

## 30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

## 31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.



HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

## **32 COMMUNICATIONS**

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on aprt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation. (See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remote facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

### **TERMINAL SERVICES**

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol **Ⓡ** indicates radar approach control.

TOWER—Control tower.


GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the



VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol  indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z+" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

### AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

**AIRSPACE: CLASS C** svc "times" ctc **APP CON** other times CLASS E:

or

**AIRSPACE: CLASS D** svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

**AIRSPACE: CLASS C** svc "times" ctc **APP CON** other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

or

**AIRSPACE: CLASS D** svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

**AIRSPACE: CLASS E** svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

**NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS.** Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

**NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.**

Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)







## CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB _____	Automatic Weather Broadcast.
DF _____	Direction Finding Service.
DME _____	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y) _____	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS _____	Glide slope.
H _____	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH _____	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB _____	Non-directional radio beacons providing automatic transcribed weather service.
ILS _____	Instrument Landing System (voice, where available, on localizer channel).
IM _____	Inner marker.
ISMLS _____	Interim Standard Microwave Landing System.
LDA _____	Localizer Directional Aid.
LMM _____	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM _____	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH _____	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS _____	Microwave Landing System.
MM _____	Middle marker.
OM _____	Outer marker.
S _____	Simultaneous range homing signal and/or voice.
SABH _____	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF _____	Simplified Direction Facility.
TACAN _____	UHF navigational facility-omnidirectional course and distance information.
VOR _____	VHF navigational facility-omnidirectional course only.
VOR/DME _____	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC _____	Collocated VOR and TACAN navigational facilities.
W _____	Without voice on radio facility frequency.
Z _____	VHF station location marker at a LF radio facility.



## ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance  
Classification Code

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512



TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	-
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	-
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-
59Y	112.25	-	92X	114.50	-	124Y	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.80	-
60Y	133.35	-	93X	114.60	-	125Y	117.85	-
61X	133.40	-	93Y	114.65	646	126X	117.90	-
61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62X	133.50	-	94Y	114.75	648			
62Y	133.55	-	95X	114.80	-			

**(35) COMM/NAV/WEATHER REMARKS:**

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.



**ADA** (ØD7) 1 NW UTC-5(-4DT) N40°47.44' W83°49.75'

DETROIT

949 NOTAM FILE DAY

**RWY 09-27:** 1955X110 (TURF)

**RWY 09:** Tree.

**RWY 27:** Tree.

**AIRPORT REMARKS:** Unattended. Deer on and invof arpt. Ultralight activity on and invof arpt.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**AIRBO** N39°29.58' W83°44.29' NOTAM FILE ILN.

CINCINNATI

**NDB (MHW/LOM)** 407 IL 217° 4.6 NM to Airborne Airpark. Unmonitored. Sat-Sun 2300-1100Z‡

L-27E

and Sun 2300 till Mon 1200Z‡.

**AIRBORNE AIRPARK** (See WILMINGTON)

## AKRON

**AKRON-CANTON RGNL** (CAK) 10 SE UTC-5(-4DT) N40°54.97' W81°26.53'

DETROIT

1228 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index B NOTAM FILE CAK H-106, L-29B

**RWY 01-19:** H7601X150 (ASPH-GRVD) S-120, D-160, ST-175, DT-250 HIRL

IAP, AD

**RWY 01:** MALSR.

**RWY 19:** MALSR. PAPI(P4L)—GA 3.0° TCH 53'. Thld displcd 599'.

**RWY 05-23:** H7597X150 (ASPH-GRVD) S-120, D-160, ST-175,

DT-230 HIRL 0.5% up NE

**RWY 05:** REIL. VASI(V4L)—GA 3.0° TCH 40'.

**RWY 23:** MALSR. VASI(V4L)—GA 3.0° TCH 48'. Trees.

### LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
<b>RWY 05</b>	01-19	4300
<b>RWY 19</b>	05-23	3100

### RUNWAY DECLARED DISTANCE INFORMATION

**RWY 01:** TORA-7600 TODA-7600 ASDA-7000 LDA-7000  
**RWY 19:** TORA-7600 TODA-7600 ASDA-7600 LDA-7000

**AIRPORT REMARKS:** Attended continuously. Rwy 05-23 southwest 1000' CLOSED indef. Air carrier acft taxiing on jet tech ramp and north hangar areas not visible from twr. Deer and birds on and invof arpt. One hr PPR for unscheduled air carrier ops with more than 9 passenger seats call airport manager 216-499-4059. ARFF svc not avbl 0500-1100Z‡ except one hr PPR; call arpt manager. Rwy 01 runway visual range touchdown avbl. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (330) 966-9545.

**COMMUNICATIONS:** ATIS 121.05 UNICOM 122.95

**RCO** 122.1R 114.4T (CLEVELAND RADIO)

Ⓡ **APP/DEP CON** 125.5 (007°-186°) 118.6 (187°-006°) 126.4 (1100-0500Z‡)

Ⓡ **CLEVELAND CENTER APP/DEP CON** 134.9 (0500-1100Z‡)

**TOWER** 118.3 **GND CON** 121.7 **CLNC DEL** 132.05

**AIRSPACE:** CLASS C svc 1100-0500Z‡ ctc APP CON other times CLASS D.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CAK.

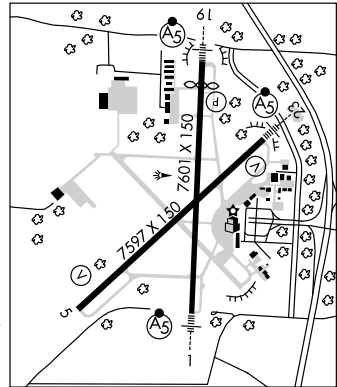
(L) **VOR/DME** 114.4 ACO Chan 91 N41°06.47' W81°12.09' 228° 15.9 NM to fld. 1194/4W.

**ILS** 109.5 I-CAK Rwy 01. Class IA.

**ILS** 108.3 I-GGZ Rwy 23. Class IB.

**ILS** 109.5 I-RGO Rwy 19. Class IE.

ASR





**AKRON FULTON INTL** (AKR) 0 S UTC-5(-4DT) N41°02.25' W81°28.02'

DETROIT

1067 B FUEL 100LL, JET A AOE NOTAM FILE AKR

H-106, L-306

RWY 07-25: H6337X150 (ASPH) S-75, D-100, ST-127, DT-160 HIRL

IAP, AD

RWY 07: REIL. PAPI(P4L)—GA 3.3° TCH 53'. Thld dsplcd 760'.

Railroad.

RWY 25: REIL. Thld dsplcd 262'. Trees.

RWY 01-19: H2336X100 (ASPH) S-30 MIRL

RWY 01: Brush. RWY 19: Thld dsplcd 190'.

AIRPORT REMARKS: Attended 1100-0300Z±. Deer on and invof rwy's and twys. PPR for svc after hrs call arpt manager 330-864-2366.

Rwy 07 REIL OTS indef. Rwy 07 PAPI OTS indef. ACTIVATE MIRL

Rwy 01-19, HIRL Rwy 07-25, and REIL Rwy's 07 and 25—CTAF.

Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS 126.825 (330) 724-4237.

COMMUNICATIONS: CTAF/UNICOM 123.075

RCO 122.1R 114.4T (CLEVELAND RADIO)

Ⓡ AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z±)

CLNC DEL 121.6

Ⓡ CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z±.)

AIRSPACE: CLASS E svc continuous.

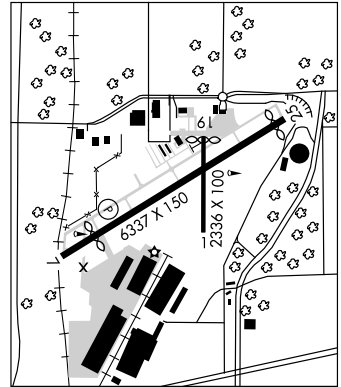
RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

(L) VOR/DME 114.4 ACO Chan 91 N41°06.47'

W81°12.09' 255° 12.8 NM to fld. 1194/4W.

NDB (MHW/LOM) 362 AK N41°04.19' W81°23.25' 249° 4.1 NM to fld. NOTAM FILE CLE.

ILS/DME 110.9 I-AKR Chan 046 Rwy 25 LOM AKRON NDB. LOC only. DME unusable byd 25° left of course. Unmonitored when twr clsd. DME OTS indef.

**MAYFIELD** (1D4) 5 SE UTC-5(-4DT) N40°59.55' W81°25.91'

DETROIT

1100 TPA-2800(1700) NOTAM FILE CLE

RWY 09-27: 2315X110 (TURF)

RWY 09: Thld dsplcd 180'. Trees.

RWY 27: Thld dsplcd 590'. Trees. Rgt tfc.

AIRPORT REMARKS: Attended irregularly. Rwy 09-27 marked with tires. Dsplcd thld marked with yellow tires.

COMMUNICATIONS: CTAF 122.9

**OLD PORTAGE HELIPORT** (4P2) 4 NW UTC-5(-4DT) N41°08.27' W81°32.95'

DETROIT

760 NOTAM FILE CLE

HELIPAD H1: 100X100 (TURF)

HELIPORT REMARKS: Unattended. Helipad H1 +82' to +46' tree along with +17' building and +30' p-line near pad.

COMMUNICATIONS: CTAF 122.9

**SCHMELTZER HELIPORT** (6D5) 7 NW UTC-5(-4DT) N41°08.84' W81°39.62'

DETROIT

992 NOTAM FILE CLE

HELIPAD H1: 50X50 (TURF)

HELIPORT REMARKS: Attended irregularly. Helipad H1 +83' trees 75' east and south of pad.

COMMUNICATIONS: CTAF 122.9



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**ALBANY** (See ATHENS/ALBANY)
 

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**ALDERMAN** (See ST CLAIRSVILLE)
 

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**ALEXANDER SALAMON** (See WEST UNION)
 

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**ALLEN CO** N40°42.43' W83°58.09' NOTAM FILE DAY. DETROIT  
 (T) VOR 108.4 AOH 274° 2.7 NM to Lima Allen Co. ASOS. L-23C  
 VOR portion unusable 091°–109° byd 20 NM.  
 RCO 122.1R 108.4T (DAYTON RADIO)

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**ALLIANCE**

**BARBER** (2D1) 3 N UTC–5(–4DT) N40°58.25' W81°05.99' DETROIT  
 1062 S4 FUEL 100LL NOTAM FILE CLE  
**RWY 18–36:** 3500X80 (TURF)  
**RWY 18:** Trees. **RWY 36:** Trees.  
**RWY 09–27:** 2088X130 (TURF)  
**RWY 09:** P–line. **RWY 27:** Trees.  
**AIRPORT REMARKS:** Attended 1300Z±–dusk. Arpt CLOSED Mon except with PPR. Parachute ops within 5 NM, sfc to 18,000' MSL, check Akron–Canton Rgnl apch. Parachute Jumping. Aerobatic practice area within 1 NM, surface–5000' MSL, hrs irregular, check NOTAMS. CAUTION: Occasional ground level aerobatic practice. CAUTION when rwys are wet. Use care—model acft in area. Rwy 09–27 NSTD lgts not for public use. PPR for ngt and winter ops call arpt manager 330–823–0652/or cell phone 330–495–5447. Rwy 09–27 and Rwy 18–36 marked with cones.  
**COMMUNICATIONS:** CTAF 122.9

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**MILLER** (4G3) 5 NE UTC–5(–4DT) N40°58.91' W81°02.53' DETROIT  
 1070 B FUEL 100LL NOTAM FILE CLE L-30C  
**RWY 09–27:** H2912X50 (ASPH) S–9 LIRL 0.4% up E. IAP  
**RWY 09:** REIL. Thld dsplcd 180'. Trees. **RWY 27:** REIL. Thld dsplcd 288'. Trees.  
**AIRPORT REMARKS:** Unattended. After hrs ctc manager Bill Barrett 330–718–1777. Parachute Jumping. Rwy 09 thld dsplcd 175' for ngt ops only. ACTIVATE LIRL Rwy 09–27 and bcn—CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 (R) AKRON–CANTON APP/DEP CON 125.5 (1100–0500Z‡) (R) CLEVELAND CENTER APP/DEP CON 120.775 (0500–1100Z‡)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CAK.  
**AKRON (L) VOR/DME** 114.4 ACO Chan 91 N42°06.47' W81°12.09' 140° 10.5 NM to fld. 1194/4W.

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**APPLETON** N40°09.06' W82°35.30' NOTAM FILE DAY. DETROIT  
 (H) VORTAC 116.7 APE Chan 114 148° 9.6 NM to Newark–Heath. 1350/6W. HIWAS. H-10G, L-29A  
 VOR portion unusable 360°–080°.  
 RCO 122.1R 116.7T (DAYTON RADIO)

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**ASHLAND CO** (3G4) 3 NE UTC–5(–4DT) N40°54.18' W82°15.34' DETROIT  
 1206 B S2 FUEL 100LL, JET A NOTAM FILE CLE L-29A  
**RWY 01–19:** H3502X75 (ASPH) MIRL 0.5% up S. IAP  
**RWY 01:** REIL. PAPI(P4L). Trees. **RWY 19:** REIL. VASI(V2L). Trees.  
**AIRPORT REMARKS:** Attended 1300Z±–dusk. Occasional deer on and invof arpt. Rwy 19 REIL OTS indef. Rwy 19 VASI OTS indef. ACTIVATE MIRL Rwy 01–19; REIL Rwy 01 and Rwy 19, PAPI Rwy 01 and VASI Rwy 19—CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 122.7  
 (R) MANSFIELD APP/DEP CON 124.2 (1100–0400Z‡) (R) CLEVELAND CENTER APP/DEP CON 134.9 (0400–1100Z‡)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE MFD.  
**MANSFIELD (L) VORTAC** 108.8 MFD Chan 25 N40°52.12' W82°35.46' 085° 15.4 NM to fld. 1210/3W.  
**NDB (MHW)** 329 AAU N40°57.80' W82°15.20' 189° 3.6 NM to fld. NOTAM FILE CLE. NDB unmonitored ngts indef.

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**ASHTABULA CO** (HZY) 8 SE UTC-5(-4DT) N41°46.68' W80°41.73'

DETROIT

924 B S3 FUEL 100LL, JET A1+ NOTAM FILE HZY

H-10G, L-30G

RWY 08-26: H5197X100 (ASPH) S-40, D-53 MIRL 0.3% up E

IAP

RWY 08: REIL. PAPI(P4L)—GA3.0° TCH 27'. Trees.

RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 26'. Trees.

**AIRPORT REMARKS:** Attended 1400-2200Z±. Unattended New Years Day and Christmas Day. 24 hr credit card self service 100LL Fuel. ACTIVATE MIRL Rwy 08-26, PAPI Rwy 08 and Rwy 26 and REIL Rwy 08 and Rwy 26—123.3.

**WEATHER DATA SOURCES:** ASOS 118.325 (440) 576-6907.**COMMUNICATIONS:** CTAF/UNICOM 122.8

JEFFERSON RCO 122.1R 115.2T (CLEVELAND RADIO)

ERIE APP/DEP CON 121.0 (1100-0500Z±)

CLEVELAND CENTER APP/DEP CON 132.4 (0500-1100Z±)

GCO 121.725 (ERIE CLNC)

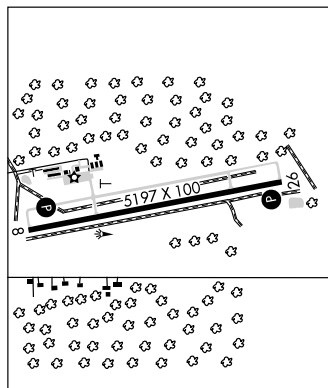
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

JEFFERSON (L) VOR/DME 115.2 JFN Chan 99 N41°45.61'

W80°44.89' 070° 2.6 NM to fld. 900/5W.

**COMM/NAV/WEATHER REMARKS:** GCO avbl on freq 121.725 ERI CLNC DEL.

Click 4 times for ERI tower and 6 times for Cleveland RADIO. GCO  
OTS indef.

**ATHENS-ALBANY** N39°12.66' W82°13.89'

CINCINNATI

RCO 122.25 (DAYTON RADIO)

L-29B

**ATHENS/ALBANY****OHIO UNIVERSITY SNYDER FLD** (UNI) 10 SW UTC-5(-4DT) N39°12.71' W82°13.76'

CINCINNATI

766 B S4 FUEL 100LL, JET A OX 1 TPA (See remarks) NOTAM FILE DAY

H-10G, L-29B

RWY 07-25: H5600X100 (ASPH) S-30 MIRL

IAP

RWY 07: REIL. PAPI(P4R)—GA 3.0° TCH 25'. Thld dsplcd 900'. Trees.

RWY 25: REIL. PAPI(P4L)—GA 3.0° TCH 50'. Trees.

**AIRPORT REMARKS:** Attended continuously. Deer and waterfowl invof arpt. TPA—turbine acft (except helicopters) 2300(1534), multiengine reciprocating 2000(1234), all others 1800(1034), Rwy 07-25 left traffic only. Extensive flight training, make every effort to observe traffic pattern altitudes. Avoid overflight of noise sensitive areas, church 1.8 mi NW of Rwy 25 end and village of Albany 2 mi E of apch end Rwy 25. Rwy 07 REILS located 949' from rwy end. ACTIVATE MIRL Rwy 07-25 and REIL Rwy 07 and Rwy 25—CTAF. PAPI Rwy 07 and Rwy 25 opr 24 hrs.

**WEATHER DATA SOURCES:** AWOS-3 128.325 (740) 597-2687 TF 1-888-682-4799.**COMMUNICATIONS:** CTAF/UNICOM 123.075

ATHENS-ALBANY RCO 122.25 (DAYTON RADIO)

® HUNTINGTON APP/DEP CON 120.95 CLNC DEL 120.95

**RADIO AIDS TO NAVIGATION:** NOTAM FILE EKN.

HENDERSON (H) VORTAC 115.9 HNN Chan 106 N38°45.25' W82°01.57' 344° 29 NM to fld. 880/3W.

UNIVERSITY NDB (MHW) 250 UGS N39°15.44' W82°07.56' 247° 5.5 NM to fld. NOTAM FILE DAY.

ILS 108.75 I-UNI Rwy 25. Class IB. LOC unusable inside .5 NM.

**BALTIMORE****MILLER FARM LANDING STRIP** (7B4) 3 NE UTC-5(-4DT) N39°53.07' W82°35.34'

CINCINNATI

930 S4 NOTAM FILE DAY

RWY 09-27: 3250X50 (TURF) LIRL (NSTD)

RWY 09: Thld dsplcd 270'. Trees. RWY 27: Thld dsplcd 275'. Trees.

**AIRPORT REMARKS:** Attended continuously. For rwy lgts call 614-862-6053. No student ops, no touch and go. Rwy 09-27 NSTD LIRL; rwy ends lgtd with 360° red lgts and dsplcd thlds lgtd with 1 360° green lgt each side of rwy.

**COMMUNICATIONS:** CTAF 122.9**BANNOCK HELIPORT** (2D6) 0 N UTC-5(-4DT) N40°06.42' W80°58.52'

DETROIT

1100 NOTAM FILE CLE

HELIPAD H1: H20X20 (CONC)

HELIPAD H1: Antenna.

**HELIPORT REMARKS:** Attended Mon-Fri 1300-2100Z±. Helipad H1 NSTD markings.**COMMUNICATIONS:** CTAF 122.9**BARBER** (See ALLIANCE)



**BARNESVILLE—BRADFIELD** (6G5) 1 NW UTC-5(-4DT) N40°00.15' W81°11.51'

DETROIT

1312 B S4 FUEL 100LL, JET A NOTAM FILE CLE

L-29B

RWY 09-27: H4004X65 (ASPH) S-30 MIRL

IAP

RWY 09: Thld dsplcd 299'. Road.

RWY 27: REIL. Trees.

**AIRPORT REMARKS:** Attended dailgt hrs. Deer and other wildlife on and invof arpt. ACTIVATE rotating bcn, MIRL Rwy 09-27 and REIL Rwy 27—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

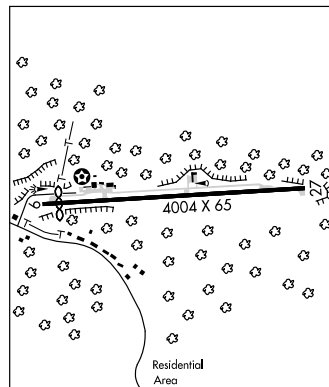
BELLAIRE RCO 122.1R 117.1T (CLEVELAND RADIO)

CLEVELAND CENTER APP/DEP CON 120.4

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

BELLAIRE (H) VOR/DME 117.1 AIR Chan 118 N40°01.02'

W80°49.04' 274° 17.3 NM to fld. 1290/7W.

**BATAVIA****CLERMONT CO** (I69) 2 W UTC-5(-4DT) N39°04.70' W84°12.61'

CINCINNATI

843 B S4 FUEL 100LL, JET A TPA-1843(1000) NOTAM FILE DAY

L-27E

RWY 04-22: H3566X75 (ASPH) MIRL 0.9% up SW

IAP

RWY 04: REIL. PAPI(P2L)—GA 4.0°. Thld dsplcd 396'. Road.

RWY 22: REIL(NSTD). PAPI(P2L)—GA 3.0°. Trees.

**AIRPORT REMARKS:** Attended Mon-Thu 1400Z±-dusk, Fri-Sat 1400-2200Z±, Sun 1600Z±-dusk. Deer and other animals on and invof arpt. ACTIVATE MIRL Rwy 04-22, PAPI and REIL Rwy 04 and Rwy 22—CTAF. Taxi on hard surface only.

**COMMUNICATIONS:** CTAF/UNICOM 122.975

® CINCINNATI APP/DEP CON 121.0 CLNC DEL 124.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE LOU.

FALMOUTH, KY (H) VOR/DME 117.0 FLM Chan 117 N38°38.97' W84°18.64' 014° 26.1 NM to fld. 810/4W.

SPORTYS NDB (MHW) 245 PWF N39°04.06' W84°12.92' at fld. NOTAM FILE DAY.

NDB unusable byd 15 NM.

**BEACH CITY** (2D7) 1 E UTC-5(-4DT) N40°38.80' W81°33.37'

DETROIT

984 B TPA-1800(816) NOTAM FILE CLE

L-29B

RWY 10-28: 3175X115 (TURF) LIRL (NSTD) 0.5% up E

IAP

RWY 10: REIL. VASI(V2L). Thld dsplcd 425'. P-line.

RWY 28: REIL. VASI(V2R). Thld dsplcd 734'. P-line.

**AIRPORT REMARKS:** Attended irregularly. No ultralight acct 1 NM radius. Rwy 10-28 NSTD LIRL; dsplcd thlds unlighted.

ACTIVATE NSTD LIRL Rwy 10-28, Rwy 10 REIL and REIL Rwy 28, and rotating bcn-122.85. Rwy 10-28 dsplcd thld marked with thld lgts on 1' day glo red containers. Rwy 10-28 numbers incorrect.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z±)

® CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z±)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

NEWCOMERTOWN (L) VOR/DME 111.8 CTW Chan 55 N40°13.75' W81°28.59' 359° 25.3 NM to fld.

1180/7W. HIWAS.

**BELLAIRE** N40°01.02' W80°49.04' NOTAM FILE CLE.

DETROIT

(H) VOR/DME 117.1 AIR Chan 118 274° 17.3 NM to Barnesville—Bradfield. 1290/7W.

H-106, L-29B

VOR portion unusable 329°-349° below 6000'.

RCO 122.1R 117.1T (CLEVELAND RADIO)



**BELLEFONTAINE RGNL** (EDJ) 3 W UTC-5(-4DT) N40°22.34' W83°49.16' **DETROIT**  
 1122 B S2 FUEL 100LL, JET A1+ NOTAM FILE DAY **L-27E**  
 RWY 07-25: H4999X100 (ASPH) MIRL 0.4% up NE **IAP**  
 RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 40'. P-line. RWY 25: REIL. PAPI(P4L)—GA 4.0° TCH 57'. Fence.  
**AIRPORT REMARKS:** Attended Mon-Fri 1300Z±-dusk, Sat-Sun 1300-2200Z±. ACTIVATE MIRL Rwy 07-25, PAPI Rwy  
 07, 25 and REIL Rwy 07 and 25—CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 118.075 (937) 599-4654.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 Ⓡ DAYTON APP/DEP CON 118.425 (360°-090°)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.  
 ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27' W84°02.59' 069° 11.5 NM to fld.  
 1080/5W.  
 NDB (MHW) 242 EDJ N40°22.26' W83°48.83' at fld. NOTAM FILE DAY.  
**COMM/NAV/WEATHER REMARKS:** AWOS-3 visibility and precipitation unreliable.

**BENTON RIDGE** N41°01.27' W83°40.15' NOTAM FILE FDY. **DETROIT**  
 NDB (MHW) 334 BNR at Findlay. Unmonitored. **L-28J**

**BLOOM** (See JAMESTOWN)

**BLUFFTON** (5G7) 1 SE UTC-5(-4DT) N40°53.13' W83°52.12' **DETROIT**  
 851 B S4 FUEL 100LL, JET A TPA—1851(1000) NOTAM FILE CLE **L-27E**  
 RWY 05-23: H4126X75 (ASPH) S-12.5 MIRL **IAP**  
 RWY 05: Trees. RWY 23: REIL. PAPI(P4L). Trees.  
**AIRPORT REMARKS:** Attended 1300-2300Z±. PAEW 1300-2200Z± Mon-Fri. Twy marked with reflectors. ACTIVATE  
 MIRL Rwy 05-23 and PAPI Rwy 23 REIL Rwy 23—CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 Ⓡ TOLEDO APP/DEP CON 120.8  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FDY.  
 FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 233° 6.6 NM to fld. 820/2W.  
**COMM/NAV/WEATHER REMARKS:** Unicom monitored irregularly.

**BOLTON FLD** (See COLUMBUS)

**BORDNER** (See BOWLING GREEN)

**BOUTN** N39°49.16' W83°12.29' NOTAM FILE DAY. **CINCINNATI**  
 NDB (MHW/LDM) 230 BU 038° 5.8 NM to Bolton Fld. Unmonitored when twr clsd. **L-29A**  
 NDB unusable 355°-010° beyond 15 NM.

## BOWLING GREEN

**BORDNER** (3D8) 4 SW UTC-5(-4DT) N41°20.16' W83°43.39' **DETROIT**  
 690 NOTAM FILE CLE  
 RWY 09-27: 2703X30 (TURF) S-5 LIRL  
 RWY 09: P-line. Rgt tfc. RWY 27: Trees.  
**AIRPORT REMARKS:** Unattended. Parachute Jumping. Arpt CLOSED indef. For LIRL Rwy 09-27 call 419-352-5200.  
**COMMUNICATIONS:** CTAF 122.9

**WOOD CO** (1G0) 1 NE UTC-5(-4DT) N41°23.46' W83°37.81' **DETROIT**  
 673 B FUEL 100LL, JET A TPA—1700(1027) NOTAM FILE CLE **L-28J**  
 RWY 10-28: H4199X75 (ASPH) MIRL **IAP**  
 RWY 10: REIL. PAPI(P4L). RWY 28: REIL. PAPI(P4L). Rgt tfc.  
 RWY 18-36: H2628X50 (ASPH) MIRL  
 RWY 18: PAPI(P4L). RWY 36: Thld dspld 57'. Road. Rgt tfc.  
**AIRPORT REMARKS:** Attended Nov-Apr 1300-2300Z±, May-Oct 1300-0000Z±. Flocks of geese on and in/ovf arpt  
 during fall and winter. 160' AGL stadium lgts .6 NM SE of arpt. Rwy 28 is the calm wind rwy. Rwy 10 REIL OTS  
 indef. Rwy 10 VASI OTS indef. ACTIVATE MIRL Rwy 10-28 and 18-36; REIL Rwy 10 and Rwy 28 and PAPI Rwy  
 18—CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 120.725 (419) 354-1415.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 Ⓡ TOLEDO APP/DEP CON 126.1 CLNC DEL 125.6  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.  
 WATERVILLE (L) VOR/DME 113.1 VVW Chan 78 N41°27.09' W83°38.32' 176° 3.7 NM to fld. 660/2W.

**BRACEVILLE** (See NEWTON FALLS)



**BRIGGS** N40°44.44' W81°25.93' NOTAM FILE CLE. DETROIT  
 (L) VOR/DME 112.4 BSV Chan 71 182° 16.2 NM to Harry Clever Fld. 1230/4W. H-106, L-29B  
 VOR portion unusable 214°-229° blo 3000' between 3-7 NM. DME portion unusable 105°-140° byd 20 NM  
 blo 3500'.  
 RCO 122.1R 112.4T (CLEVELAND RADIO)

**BROOKFIELD**

**KIRILA HELIPORT** (4D5) 1 SE UTC-5(-4DT) N41°13.80' W80°33.44' DETROIT  
 1140 FUEL JET A NOTAM FILE CLE  
 HELIPAD H1: 300X300 (TURF)  
 HELIPORT REMARKS: Attended continuously. Trees N. Wires E. Helipad H1 not marked. Make apchs to turf helipad  
 (H1); Transition to asph apron for fuel.  
 COMMUNICATIONS: CTAF 122.9

**BROOKVILLE AIR-PARK** (I62) 2 NW UTC-5(-4DT) N39°51.75' W84°26.00' CINCINNATI  
 1037 S4 FUEL 100LL NOTAM FILE DAY  
 RWY 09-27: H2500X30 (ASPH) LIRL  
 RWY 09: Road. RWY 27: Trees.  
 AIRPORT REMARKS: Attended 1300Z±-dark. Deer on and invof arpt. 100LL fuel avbl 24 hrs with credit card. Rwy  
 09-27 pavement condition-weathered, loose aggregate, broken pavement. ACTIVATE LIRL Rwy 09-27-122.8.  
 COMMUNICATIONS: CTAF/UNICOM 122.8  
 DAYTON APP/DEP CON 134.45 (181°-359°)

**BROWN CO** (See GEORGETOWN)

**BRUNY** N39°50.82' W84°20.09' NOTAM FILE DAY. CINCINNATI  
 NDB (LOM) 315 AT 062° 6.3 NM to fld. James M Cox Dayton Intl.

**BRYAN** N41°28.79' W84°27.96' NOTAM FILE CLE. DETROIT  
 NDB (MHW) 260 BYN 252° 2 NM to Williams Co. L-28J

**BRYAN**

**WILLIAMS CO** (ØG6) 2 E UTC-5(-4DT) N41°28.04' W84°30.41' DETROIT  
 730 B FUEL 100LL, JET A NOTAM FILE CLE L-28J  
 RWY 07-25: H4781X75 (ASPH) S-30 LIRL IAP  
 RWY 07: REIL. SAVASI(S2L). Thld dsplcd 296'. Trees. RWY 25: REIL. Thld dsplcd 629'. Road.  
 AIRPORT REMARKS: Attended Apr-Nov 1300-2330Z±, Dec-Mar 1300-2230Z±. Occasional deer on and invof arpt. Rwy  
 07 VASI OTS indef. ACTIVATE REIL Rwy 07-25-123.0.  
 COMMUNICATIONS: CTAF/UNICOM 122.8  
 LITCHFIELD RCO 122.1R 111.2T (LANSING RADIO)  
 ® TOLEDO APP/DEP CON 134.35  
 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.  
 LITCHFIELD (L) VOR/DME 111.2 LFD Chan 49 N42°03.75' W84°45.91' 167° 37.5 NM to fld. 1040/05W.  
 BRYAN NDB (MHW) 260 BYN N41°28.79' W84°27.96' 252° 2 NM to fld. NOTAM FILE CLE.

**BUCKEYE** N40°37.00' W83°03.83' NOTAM FILE MNN. DETROIT  
 (T) VORW 109.8 BUD at Marion Muni. L-29A



**BUCYRUS****PORT BUCYRUS—CRAWFORD CO** (17G) 1 S UTC-5(-4DT) N40°46.89' W82°58.49'DETROIT  
L-29A  
IAP

1003 B S4 FUEL 100LL NOTAM FILE CLE

RWY 04-22: H3895X75 (ASPH) S-17.1, D-35 MIRL

RWY 04: REIL. PAPI(P4L). Thld dsplcd 277'. Trees.

RWY 22: REIL. SAVASI(S2L). Road.

RWY 09-27: 2900X75 (TURF) 0.4% up E

RWY 09: Pole. RWY 27: Tree.

AIRPORT REMARKS: Attended Apr-Oct 1300-2300Z†, Nov-Mar 1300-2200Z†.

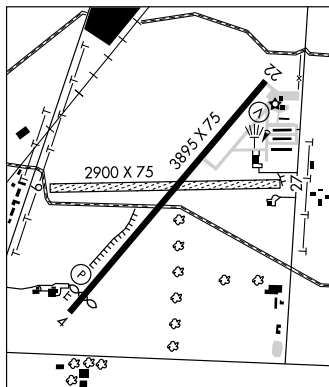
WEATHER DATA SOURCES: AWOS-3 126.625 (419) 562-0297.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ MANSFIELD APP/DEP CON 124.2 (1100-0400Z†)

Ⓡ CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12'  
W82°35.46' 257° 18.3 NM to fld. 1210/3W.BUCKEYE (T) VORW 109.8 BUD N40°37.00' W83°03.83' 027°  
10.7 NM to fld. NOTAM FILE MNN.**BURKE LAKEFRONT** (See CLEVELAND)**BUTLER CO RGNL** (See HAMILTON)**CADIZ** N40°14.20' W81°00.79' NOTAM FILE CLE.

DETROIT

NDB (MHW) 239 CFX at Harrison Co. Unmonitored. VFR only. Out of svc indefinitely.

**CADIZ****HARRISON CO** (8G6) 2 S UTC-5(-4DT) N40°14.30' W81°00.77'DETROIT  
L-29B  
IAP

1174 B S4 FUEL 100LL NOTAM FILE CLE

RWY 13-31: H3765X75 (ASPH) S-30 MIRL 1.9% up NW

RWY 13: PAPI(P2L). Thld dsplcd 876'. Hill.

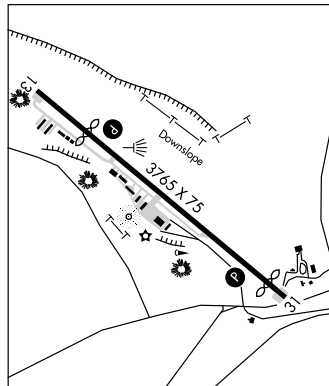
RWY 31: PAPI(P2L). Thld dsplcd 168'. Tree.

AIRPORT REMARKS: Attended 1400-2200Z†. Rwy 13-31 asphalt poor due to large cracks, vegetation and weathering. Rwy 31 VASI OTS indef. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy 31—CTAF. Rotating bcn OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ CLEVELAND CENTER APP/DEP CON 120.4

RADIO AIDS TO NAVIGATION: NOTAM FILE HLG.

WHEELING (L) VOR/DME 112.2 HLG Chan 59 N40°15.59'  
W80°34.12' 274° 20.5 NM to fld. 1269/07W.CADIZ NDB (MHW) 239 CFX N40°14.20' W81°00.79' at fld.  
NOTAM FILE CLE. Unmonitored. VFR only.  
Out of svc indefinitely.



**CALDWELL****NOBLE CO** (I10) 3 N UTC-5(-4DT) N39°48.06' W81°32.18'**CINCINNATI**

879 B FUEL 100LL NOTAM FILE CLE

**L-29B****RWY 05-23:** H3811X65 (ASPH) S-12.5 MIRL**IAP****RWY 05:** PAPI(P2L). Trees.**RWY 23:** PAPI(P2L). Thld dsplcd 413'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2100Z±, Sat-Sun irregularly. For fuel after hrs call 740-525-9901 or 740-581-1167. Model acft activity on arpt-Sundays. ACTIVATE MIRL Rwy 05-23 and rotating bcn-122.7. Red obstruction lgts mark 56' hill 947' from AER 23.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**(R) INDIANAPOLIS CENTER APP/DEP CON 124.45****RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.**ZANESVILLE (L) VOR/DME 111.4 ZZW** Chan 51 N39°56.45' W81°53.56' 123° 18.5 NM to fld. 900/6W.**CAMBRIDGE****CAMBRIDGE MUNI** (CDI) 03 S UTC-5(-4DT) N39°58.50' W81°34.66'**CINCINNATI**

799 B S2 FUEL 100LL TPA-1799(1000) NOTAM FILE CLE

**L-29B****RWY 04-22:** H4298X75 (ASPH) S-18.5 MIRL**IAP****RWY 04:** REIL. VASI(V2L)-GA 3.5°. Thld dsplcd 400'. Pole.**RWY 22:** REIL. VASI(V2L)-GA 3.5°. P-line.**AIRPORT REMARKS:** Attended Mon-Fri 1300-2300Z±, Sat-Sun 1300-2200Z±. Geese and deer invof rwy. Rwy 22 REIL

OTS indef. Rwy 04 obstrn lgtd hills SW of arpt. ACTIVATE MIRL Rwy 04-22; REIL Rwy 04 and Rwy 22-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.525 (740) 435-0086.**COMMUNICATIONS:** CTAF/UNICOM 123.075**(R) INDIANAPOLIS CENTER APP/DEP CON 124.45** (West side ops VOR or GPS A for arrival)**(R) CLEVELAND CENTER APP/DEP CON 120.4** (East side ops LOC/DME Rwy 22 for arrival)**RADIO AIDS TO NAVIGATION:** NOTAM FILE ZZW.**ZANESVILLE (L) VOR/DME 111.4 ZZW** Chan 51 N39°56.45' W81°53.56' 088° 14.7 NM to fld. 900/6W.**ILS/DME 109.35 I-CZM** Chan 30 (Y) Rwy 22. LOC only. DME unmonitored.**SALT FORK LODGE HELIPORT** (Ø8G) 6 NE UTC-5(-4DT) N40°06.66' W81°31.57'**DETROIT**

960 NOTAM FILE CLE.

**HELIPAD H1:** H60X56 (ASPH)**HELIPORT REMARKS:** Unattended.**COMMUNICATIONS:** CTAF 122.9**CANTON****STARK COUNTY SHERIFF HELIPORT** (5D1) 4 E UTC-5(-4DT) N40°50.39' W81°18.49'**DETROIT**

1135 NOTAM FILE CLE

**HELIPAD H1:** H120X75 (ASPH)**HELIPAD H1:** Tower.**HELIPORT REMARKS:** Attended continuously. Ingress-Egress 270° clockwise 090° from PAD. Helipad H1 marked with 'H'.**COMMUNICATIONS:** CTAF 122.9**CARL R KELLER FLD** (See PORT CLINTON)**CARROLL CO-TOLSON** (See CARROLLTON)**CARROLLTON****CARROLL CO-TOLSON** (TSO) 1 SE UTC-5(-4DT) N40°33.71' W81°04.65'**DETROIT**

1163 B S4 FUEL 100LL, JET A TPA-2013(850) NOTAM FILE CLE

**L-29B****RWY 07-25:** H4300X75 (ASPH) MIRL**IAP****RWY 07:** REIL. PAPI(P2L). Tree.**RWY 25:** REIL. PAPI(P2L). Tree.**AIRPORT REMARKS:** Attended 1100-0000Z±. 24 hr fuel avbl with credit card. Deer on and invof arpt. ACTIVATE MIRL Rwy 07-25 and REIL Rwsy 07 and 25-CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.7**(R) AKRON-CANTON APP/DEP CON 125.5** (1100-0500Z±)**(R) CLEVELAND CENTER APP/DEP CON 120.6** (0500-1100Z±)**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.**NEWCOMERSTOWN (L) VOR/DME 111.8 CTW** Chan 55 N40°13.75' W81°28.59' 049° 27.1 NM to fld. 1180/7W.**HIWAS.**



**PARSONS** (5D6) 5 N UTC-5(-4DT) N40°38.89' W81°04.12'

**DETROIT**

1290 S2 NOTAM FILE CLE

**RWY 09-27:** 2530X75 (TURF)

**RWY 09:** Trees.

**RWY 27:** Tree.

**AIRPORT REMARKS:** Attended irregularly. Deer and birds on and in/ovf arpt. Rwy 09-27 slopes up to the W. Rwy soft when wet. No line of sight between rwy ends. Aerobatic practice area 2280' MSL to 5000' MSL within 1 mile radius of arpt. Rwy 09 outlined with orange and white barrel halves and yellow tires at rwy end.

**COMMUNICATIONS:** CTAF 122.9

**CASER** N39°44.93' W82°32.12' NOTAM FILE DAY.

**CINCINNATI**

**NDB (LOM)** 338 LH 280° 5.7 NM to Fairfield Co. Unmonitored.

## CELINA

**LAKEFIELD** (CQA) 6 SE UTC-5(-4DT) N40°29.06' W84°33.49'

**DETROIT**

894 B **FUEL** 100LL, JET A1+ NOTAM FILE DAY

**L-27E**

**RWY 08-26:** H4400X75 (ASPH) S-30 MIRL

**IAP**

**RWY 08:** REIL. PAPI(P4L)—GA 3.0° TCH 20'. P-line.

**RWY 26:** REIL. PAPI (P4L)—GA 3.0° TCH 29'. Tree.

**AIRPORT REMARKS:** Attended 1330Z±-dusk. 100LL fuel 24 hr with credit card self svc. After hrs call ahead for Jet A service. Parachute Jumping. ACTIVATE MIRL Rwy 08-26 and REIL Rwy 08-26—123.3.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **DAYTON APP/DEP CON** 134.45 (181°-359°)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.

**ROSEWOOD (H) VORTAC** 117.5 ROD Chan 122 N40°17.27' W84°02.59' 302° 26.4 NM to fld. 1080/5W.

**NDB (MHW)** 205 CQA N40°28.92' W84°33.86' on fld.

**CHARDON** N41°31.02' W81°09.79' NOTAM FILE CLE.

**DETROIT**

**(H) VOR/DME** 112.7 CXR Chan 74 137° 6.1 NM to Geauga Co. 1310/5W.

**H-106, L-30G**

VOR portion unusable

357°-073° byd 10 NM blo 11,000'

085°-099° byd 10 NM blo 11,000'

074°-084° byd 10 NM blo 3,300'

104°-180° byd 10 NM 6000'

**RCO** 122.1R 112.7T (CLEVELAND RADIO)

## CHESAPEAKE/HUNTINGTON W VA

**LAWRENCE CO AIRPARK** (HTW) 2 W UTC-5(-4DT) N38°25.15' W82°29.66'

**CINCINNATI**

568 B **FUEL** 100LL NOTAM FILE DAY

**L-26H**

**RWY 08-26:** H3001X70 (ASPH) MIRL (NSTD)

**RWY 08:** Thld displcd 173'. Trees.

**RWY 26:** Trees.

**AIRPORT REMARKS:** Attended Oct-Apr 1400Z±-dusk, May-Sep

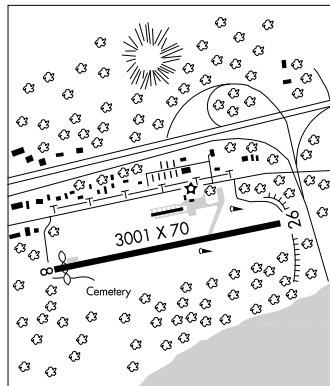
1300Z±-dusk. Parachute Jumping. Rwy 08-26 has many cracks, exhibits foreign object damage. Rwy 08-26 NSTD MIRL 70' from rwy edges; Rwy 08 relocated thld 28' at ngt; 2973' lgtd at ngt.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE LOU.

**YORK (L) VORTAC** 112.8 YRK Chan 75 N38°38.65'

W82°58.70' 125° 26.5 NM to fld. 1040/5W.





**CHILLICOTHE****ROSS CO** (RZT) 6 NW UTC-5(-4DT) N39°26.43' W83°01.38'**CINCINNATI**  
H-106, L-29A  
IAP

725 B S4 FUEL 100LL, JET A NOTAM FILE DAY

**RWY 05-23:** H5404X100 (ASPH) S-30, D-60 MIRL 0.4% up SW**RWY 05:** REIL. PAPI(P4L)—GA 3.0° TCH 44'. Tree. **RWY 23:** REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees.**RWY 12-30:** 3130X125 (TURF)**RWY 12:** Thld dsplcd 330'. P-line. **RWY 30:** Trees.**AIRPORT REMARKS:** Attended 1300Z†-dusk. Rwy 12-30 CLOSED indef. Avionics Shop on fld. MIRL Rwy 05-23 preset on low ints; to increase ints and ACTIVATE PAPI and REIL Rwys 05 and 23—123.0. Rwy 05-23 555' SW end marked with Chevrons is unusable.**WEATHER DATA SOURCES:** AWOS-3 119.225 (740) 779-1364. SAWRS**COMMUNICATIONS:** CTAF/UNICOM 122.8**YELLOW BUD RCO** 122.1R 112.5T (DAYTON RADIO)**(R) COLUMBUS APP/DEP CON** 132.3**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.**APPLETON (H) VORTAC** 116.7 APE Chan 114 N40°09.06' W82°35.30' 211° 47.1 NM to fld. 1350/6W.  
HIWAS.**YELLOW BUD (T) VOR** 112.5 XUB N39°31.61' W82°58.68' 207° 5.6 NM to fld.**NDB (MHW)** 236 RZT N39°26.29' W83°01.73' at fld.

NDB unusable 330°-001° byd 10 NM; 060°-077° byd 10 NM and 200°-230° byd 10 NM.

**COMM/NAV/WEATHER REMARKS:** SAWRS avbl 1300-2300Z† and upon req call (740) 773-4788.**CINCINNATI****CINCINNATI-BLUE ASH** (ISZ) 6 NE UTC-5(-4DT) N39°14.80' W84°23.34'**CINCINNATI**  
L-27E  
IAP

856 B S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE DAY

**RWY 06-24:** H3499X75 (ASPH) S-12.5 MIRL 0.7% up SW**RWY 06:** REIL. VASI(V2L)—GA 4.0° TCH 20'. Trees.**RWY 24:** REIL. VASI(V2L)—GA 4.0° TCH 20'. Trees. Rgt tfc.**AIRPORT REMARKS:** Attended Apr-Nov 1200Z†-dusk, Dec-Mar 1300Z†-dusk. Deer and wildlife on and invof arpt.

Noise abatement procedures departing Rwy 24; turn rgt heading 270° after tkf, departing Rwy 06 turn left 360° after tkf. Rwy 06 REIL OTS indef. MIRL Rwy 06-24 preset on low ints dusk-dawn; to increase ints and ACTIVATE twy lgts and wind indicator and REIL Rwy 06 and 24—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.475 (513) 794-1520.**COMMUNICATIONS:** CTAF/UNICOM 123.0**(R) APP/DEP CON** 121.0 **CLNC DEL** 124.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE CVG.**(L) VORTAC** 117.3 CVG Chan 120 N39°00.96' W84°42.20' 051° 20.2 NM to fld. 879/04W.**NDB (MHW)** 388 ISZ N39°14.93' W84°23.38' at fld. NOTAM FILE DAY. NDB OTS indef.



**CINCINNATI MUNI ARPT LUNKEN FLD** (LUK) 3 SE UTC-5(-4DT)

CINCINNATI

H-106, L-27E

N39°06.20' W84°25.12'

483 B S4 FUEL 100LL, JET A OX 1 LRA Class IV, ARFF Index A NOTAM FILE LUK IAP, AD

RWY 03L-21L: H6101X150 (ASPH-GRVD) S-60, D-70, ST-88, DT-140 HIRL

RWY 03R: REIL, PAPI(P4R). Tree.

RWY 21L: MALSR. VASI(V4L)—GA 3.0° TCH 38'. Trees.

RWY 07-25: H5128X100 (ASPH-GRVD) S-11, D-20, DT-55 MIRL

RWY 07: Thld dsplcd 439'. Tree.

RWY 25: VASI(V4L)—GA 3.0° TCH 39'. Trees.

RWY 03L-21R: H3802X100 (ASPH) S-11 MIRL

RWY 03L: Trees. RWY 21R: VASI(V4L)—GA 4.0 TCH 46'. Tree.

**AIRPORT REMARKS:** Attended continuously. Deer and birds on and in/ov arpt. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call 513-352-6340. Noise abatement procedures in effect call 513-352-6340. Aft maintenance run-ups restricted between 0200-1200Z. Rwy 25 and Rwy 21L apch ends are closely aligned. Rotating bcn located 1.7 NM east of the center of Lunken arpt. Verify correct rwy and compass heading prior to departure. Rws 03L-21R and 07-25 and Twy D not avbl for acft with more than 30 passenger seats. When twr clsd HIRL Rwy 03R-21L preset on med ints; to increase ints and ACTIVATE MALSR Rwy 21L—CTAF. MIRL Rwy 03L-21R and Rwy 07-25 unavbl. Ldg fee. Flight Notification Service (ADCUS) available.

**WEATHER DATA SOURCES:** ASOS (513) 321-6291.**COMMUNICATIONS:** CTAF 118.7 ATIS 120.25 UNICOM 122.95

RCO 122.4 (DAYTON RADIO).

Ⓡ APP/DEP CON 121.0

LUNKEN TOWER 118.7 133.925 (1200-0400Z) CLNC DEL 124.9 (use when twr closed)

GND CON/CLNC DEL 121.9

AIRSPACE: CLASS D svc 1200-0400Z other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE CVG.

(L) VORTAC 117.3 CVG Chan 120 N39°00.96' W84°42.20' 072° 14.3 NM to fld. 879/04W.

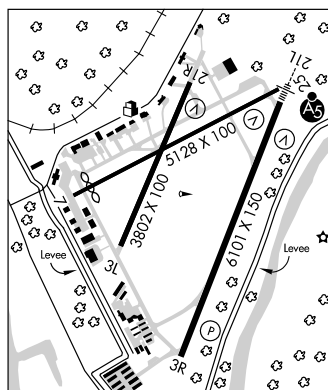
NDB (MHW) 335 LUK N39°09.58' W84°20.48' 231° 4.9 NM to fld. NOTAM FILE LUK.

Unmonitored when twr clsd.

MADEIRA NDB (MHW) 379 MDE N39°13.37' W84°21.32' 206° 7.7 NM to fld. NOTAM FILE LUK.

Unmonitored when twr clsd.

ILS/DME 110.9 I-LUK Chan 46 Rwy 21L. Class IA. LOC BC unusable byd 10 NM and 15° left and right of course. DME unusable byd 5° left and right of BC. DME unusable byd 25° left and right of course.

**COMM/NAV/WEATHER REMARKS:** Emerg frequency 121.5 not avbl at twr.**CINCINNATI/NORTHERN KENTUCKY INTL** (See COVINGTON, KY)**CINCINNATI WEST** (See HARRISON)**CIRCLEVILLE** N39°31.39' W82°58.78' NOTAM FILE DAY.

CINCINNATI

NDB (MHW) 366 CYO at Pickaway Co Meml. Unmonitored. SHUTDOWN.

L-29A

**CIRCLEVILLE****CLARKS DREAM STRIP** (Ø3I) 4 NW UTC-5(-4DT) N39°38.65' W83°01.09'

CINCINNATI

680 NOTAM FILE DAY

RWY 13-31: 2375X90 (TURF)

RWY 13: Trees. RWY 31: Trees.

**AIRPORT REMARKS:** Attended dawn-dusk. Parachute jumping. Repairs—part time weekends.**COMMUNICATIONS:** CTAF 122.9



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**PICKAWAY CO MEML** (CYO) 5 S UTC-5(-4DT) N39°30.96' W82°58.93'

CINCINNATI

684 B S1 FUEL 100LL, JET A ARFF Index Ltd. NOTAM FILE DAY

L-29A

RWY 01-19: H4351X75 (ASPH) S-30, D-40 MIRL 0.5% up N

IAP

RWY 01: Trees.

RWY 19: REIL. PAPI (P4R)—GA 3.0° TCH 27'. Road.

AIRPORT REMARKS: Attended Mon-Sat 1300-0100Z, Sun 1300-2200Z. ACTIVATE MIRL Rwy 01-19, PAPI Rwy 19 and REIL Rwy 19—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

YELLOW BUD RCO 122.1R 112.5T (DAYTON RADIO)

④ COLUMBUS APP/DEP CON 132.3

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 212° 42.2 NM to fld. 1350/6W. HIWAS.

YELLOW BUD (T) VOR 112.5 XUB N39°31.61' W82°58.68' at fld.

CIRCLEVILLE NDB (MHW) 366 CYO N39°31.39' W82°58.78' at fld. Unmonitored. SHUTDOWN.

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**CLARK CO** N39°52.42' W83°46.77' NOTAM FILE SGH.

CINCINNATI

NDB (MHW) 341 CCJ 238° 3.4 NM to Springfield-Beckley Muni. Unmonitored.

L-27E

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**CLARKS DREAM STRIP** (See CIRCLEVILLE)

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**CLERMONT CO** (See BATAVIA)

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**CLEVELAND**
**BURKE LAKEFRONT** (BKL) .9 N UTC-5(-4DT) N41°31.05' W81°41.00'

DETROIT

583 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class IV, ARFF Index A NOTAM FILE BKL H-106, L-306

RWY 06L-24R: H6198X150 (ASPH-GRVD) S-93, D-113, ST-144, DT-170 HIRL

IAP, AD

RWY 06L: REIL. VASI(V4L)—GA 3.0° TCH 32'. Thld displcd 265'.

RWY 24R: MALSF. VASI(V4L)—GA 3.35° TCH 26'. Bldg. Rgt tfc.

RWY 06R-24L: H5197X100 (ASPH-GRVD) S-43, D-50,

DT-82 HIRL

RWY 06R: Thld displcd 267'.

RWY 24L: REIL. Antenna. Rgt tfc.

AIRPORT REMARKS: Attended continuously. Rwy 06R-24L CLOSED when twr clsd. Birds and waterfowl on and in/ov airport. 72' ship crane 1300' SW of Rwy 06R. When twr clsd HIRL Rwy 06L-24R preset; To increase ints radio req on UNICOM. ACTIVATE MALSF Rwy 24R—CTAF. PPR for unscheduled air carrier ops with more than 30 passenger seats ctc 216-781-6411. Rwy 06R-24L not authorized for ops involving air carrier acft with more than 30 passenger seats. Rwy 06L-24R and Rwy 06R-24L apch surfaces have navigable waterways creating possible vessel obstruction areas—check local NOTAMS for current activity; vessel height; etc. Twy G east of twy F CLOSED. Banner towing ops not authorized. Rwy 06L VASI unusable byd 8° left and right of centerline. Ldg fee. Fee schedule based on number of engines and gross weight. Flight Notification Service (ADCUS) avbl 24 hrs Mon-Fri reg for svc on Sat; Sun and Holidays must be made prior to 2130Z on Fri; 2 hrs advance notice req call 216-522-4781. Private acft and general aviation only.

WEATHER DATA SOURCES: ASOS 125.25 (ops during twr hrs) (216) 241-6904. LLWAS.

COMMUNICATIONS: CTAF 124.3 ATIS 125.25 UNICOM 122.95

④ CLEVELAND APP/DEP CON 125.35

LAKEFRONT TOWER 124.3 (Mon 1200Z to Sat 0400Z; Sat 1200-0400Z; Sun 1300-0500Z)

GND CON 121.9

AIRSPACE: CLASS D svc Mon 1200Z to Sat 0400Z; Sat 1200-0400Z; Sun 1300-0500Z other times CLASS G.

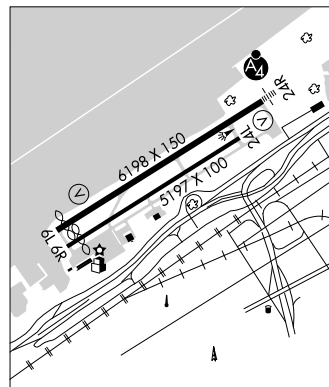
RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

CHARDON (H) VOR/DME 112.7 CXR Chan 74 N41°31.02' W81°09.79' 275° 23.4 NM to fld. 1310/5W.

TABEY NDB (LOM) 248 BF N41°34.15' W81°34.43' 245° 5.8 NM to fld. SHUTDOWN.

ILS/DME 109.75 I-BFT Chan 34(Y) Rwy 24R. Class IE. LOM TABEY NDB. LOM SHUTDOWN.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not available at twr. Clearance delivery provided by Cleveland apch on 121.9 or call 216-898-2077 when Lakefront twr clsd.





**CLEVELAND—HOPKINS INTL** (CLE) 9 SW UTC-5(-4DT) N41°24.57' W81°51.30'

791 B S4 FUEL 100LL, JET A1 + OX 1, 2, 3, 4 AOE Class I, ARFF Index C

NOTAM FILE CLE

**RWY 06R-24L:** H9955X150 (CONC-GRVD) S-100, D-185, ST-175, DT-340 HIRL CL

**RWY 06R:** TDZL. PAPI (P4L)—GA 2.89° TCH 47'. Thld dspcd 1926'.

Trees.

**RWY 24L:** MALSR. PAPI (P4R)—GA 3.0° TCH 75'.

**RWY 06L-24R:** H9000X150 (CONC-GRVD) S-75, D-200, ST-175,

DT-400 HIRL CL

**RWY 06L:** ALSF2. TDZL. PAPI (P4L)—GA 3.0° TCH 55'. Trees.

**RWY 24R:** ALSF2. TDZL. PAPI (P2R)—GA 3.0° TCH 55'.

**RWY 10-28:** H6017X150 (ASPH-CONC-GRVD) S-155, D-200,

ST-175, DT-400 HIRL 0.5% up E.

**RWY 10:** PAPI (P4L). Road.

**RWY 28:** REIL. MALSR. PAPI (P4R)—GA 3.0° TCH 42'. Pole.

**RUNWAY DECLARED DISTANCE INFORMATION**

**RWY 06R:** LDA-8029

**AIRPORT REMARKS:** Attended continuously. Deer and birds, including waterfowl, on and invof arpt. All apchs are over noise sensitive areas. Arpt late night noise abatement procedures are in effect 0400-1100Z†. Additional noise abatement procedures are in effect, call arpt manager normal business hrs at 216-265-6090.

Twy L2 clsd between Rwy 06R-24L and Twy L: area marked with lgtd barricades and reflectors. The following twys are clsd annually from 15 Oct through 15 Apr to support deicing ops at Cleveland-Hopkins Intl: Twy M, Twy M1 between Twy L and Twy J1, Twy M2 between Twy L and Twy J1, Twy J2 between Twy A and Twy K. Taxilane J south of Twy K restricted to acft with a wingspan of 171' or less. Pad 2 rstd to Group II acft, less than 79' wingspan. NASA Glenn Research Center; NASA ramp PPR call 216-433-2020; Mon-Fri 1300-2230Z†. Contact NASA ops on freq 122.925 within 50 NM. Ldg Fee. Rwsy 06L, 24L and 24R runway visual range touchdown, midfield, rollout avbl. Rwy 28 runway visual range touchdown avbl. Flight Notification Service (ADCUS) available Mon-Fri 1200-0200Z†; Sat-Sun 1400-2200Z†; all request for svc must be made with the U.S. Customs Svc office lctd at gate A-14 call 216-267-3600 during listed hours.

NOTE: All CLE SOIA/PRM users refer to Special Notices Section. NOTE: See Special Notices—ILS Prior (Simultaneous Close Parallel) Procedure For Pilots Filing Flight Plans to Cleveland-Hopkins Intl (CLE). Continuous Power Facilities.

**WEATHER DATA SOURCES:** ASOS (216) 267-9955/9956. TDWR.

**COMMUNICATIONS:** D-ATIS ARR 127.85 D-ATIS DEP 132.375 UNICOM 122.95

RCO 122.35 122.2 122.1R 122.0 (CLEVELAND RADIO)

Ⓡ APP CON 124.0 (Rwy 06R-24L and Rwy 28) 126.55 and Rwy 28 119.625 (Rwy 06L-24R)

Ⓡ DEP CON 118.15 (057°-236°) 128.25 (237°-056°) 125.85

TOWER 120.9 (Rwy 06R-24L and Rwy 10-28) 124.5 135.225 (Rwy 06L-24R)

GND CON 121.7 (Rwy 06R-24L and Rwy 10-28) 133.6 (Rwy 06L-24R)

CLNC DEL 125.05 PRE-TAXI CLNC 125.05 RAMP CTL 129.17

**AIRSPACE: CLASS B:** See VFR Terminal Area Chart.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

**DRYER (H) VOR/DME** 113.6 DJB Chan 83 N41°21.48' W82°09.72' 082° 14.2 NM to fld. 780/5W. HIWAS.

**ILS/DME** 109.9 I-HPI Chan 36 Rwy 24L. Class IE.

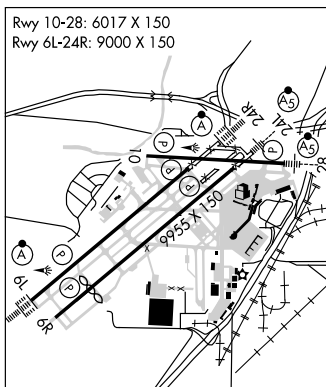
**ILS/DME** 111.9 I-CLE Chan 56 Rwy 06R. Class IE.

**ILS/DME** 110.7 I-PXP Chan 44 Rwy 28. Class IE.

**ILS/DME** 111.55 I-LIZ Chan 52Y Rwy 06L. CLASS IIIE.

**ILS/DME** 111.55 I-PVY Chan 52Y Rwy 24R. Class IIIE.

**COMM/NAV/WEATHER REMARKS:** Freq 121.5 not avbl at FSS.





**CUYAHOGA CO** (CGF) 10 E UTC-5(-4DT) N41°33.91' W81°29.18'

879 B S4 FUEL 100LL, JET A, A1+ OX 3 TPA—See Remarks NOTAM FILE CGF

RWY 06-24: H5102X100 (ASPH-GRVD) S-43, D-55, DT-100 HIRL

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 42'. Pole.

RWY 24: MALSR. PAPI(P4L)—GA 3.0° TCH 50'. Trees.

**AIRPORT REMARKS:** Attended continuously. Rwy 06-24 CLOSED to jet acft with more than 30 passengers. Birds and deer on and invof arpt. Tower visibility SW reduced within 500' AER 06. Rwy 24 PAPI unusable byd 7° right of course. HIRL Rwy 06-24 step one OTS indef. Noise abatement procedures: Avoid overflight of school ¾ mile SW of arpt; flight training between 0400-1200Z prohibited; all turbojet/turbopan training prohibited; pattern altitude 1879 (1000); 2379 (1500) jets/twins; all acft ctc arpt manager prior to conducting ops between 0400-1200Z. Twy A4 not avbl for air carrier ops with more than 30 passenger seats. When twr clsd ACTIVATE HIRL Rwy 06-24, REIL Rwy 06, MALSR Rwy 24-CTAF. PAPI Rwy 06 and Rwy 24 and windsock operate continuously. Ldg fee. Parking fee for over two hrs.

WEATHER DATA SOURCES: LAWR5.

COMMUNICATIONS: CTAF 118.5 UNICOM 122.95

① CLEVELAND APP/DEP CON 125.35 CLEVELAND CLNC DEL 121.85

COUNTY TOWER 118.5 (1200-0400Z) GND CON 121.85

AIRSPACE: CLASS D svc 1200-0400Z other times CLASS G.

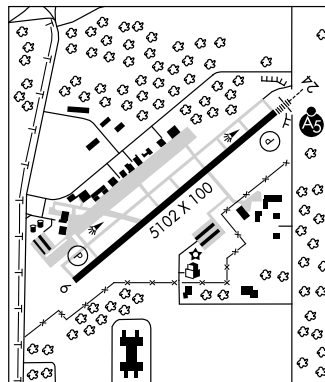
RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

CHARDON (H) VOR/DME 112.7 CXR Chan 74 N41°31.02' W81°09.79' 286° 14.9 NM to fld. 1310/5W.

HOGAF NDB (LMM) 521 GF N41°34.45' W81°28.27' at fld. NOTAM FILE CGF. SHUTDOWN.

ILS/DME 111.1 I-CGF Chan 48 Rwy 24. Class IB. LOC unusable byd 10 NM blo 3000'. LOC BC unusable byd 10 NM and unusable byd 15°R of course. (BACK) GS unusable for coupled apchs blo 2020'.

**COMM/NAV/WEATHER REMARKS:** Emerg frequency 121.5 not available at twr. For IFR clearance when twr clsd ctc Cleveland apch control at 216-898-2040.

**CLINTON FLD** (See WILMINGTON)**COBBS** N39°44.58' W83°01.22'. NOTAM FILE LCK.

NDB (LOM) 253 DD 050° 6.0 NM to Rickenbacker Intl.

CINCINNATI

**COLUMBIA** (See COLUMBIA STATION)**COLUMBIA STATION****COLUMBIA** (4G8) 1 NW UTC-5(-4DT) N41°19.13' W81°57.61'

813 FUEL 100LL NOTAM FILE CLE

RWY 18R-36L: H3152X40 (ASPH) LIRL (NSTD)

RWY 18R: Thld dsplcd 300'. Trees. RWY 36L: Thld dsplcd 209'. Tree.

RWY 18L-36R: 2974X65 (TURF)

RWY 18L: Trees. RWY 36R: Tree.

RWY 02-20: 2580X85 (TURF)

RWY 02: Brush. RWY 20: Trees.

**AIRPORT REMARKS:** Attended 1300Z-dusk. Rwy 02-20 CLOSED indef. Use hard surface rwy when wet. Rwy 02-20 surface rough. Rwy 18L-36R sfc rough. Rwy 18R-36L pavement poor-weathered. ACTIVATE NSTD LIRL Rwy 18R-36L-CTAF. Rwy 18R-36L NSTD LIRL; no thld lgts. Rwy 18R-36L N 300' and S 200' unmarked. Rwy 18R NSTD dsplcd thld markings, no arrowheads. Rwy 36L NSTD dsplcd thld markings, no arrowheads.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.49' W82°09.72' 109° 9.4 NM to fld. 780/5W. HIWAS.

DETROIT

L-306

**COLUMBIANA CO** (See EAST LIVERPOOL)**COLUMBUS** N39°59.69' W82°53.13'

RCO 122.2 122.3 (DAYTON RADIO)

CINCINNATI

H-106, L-29A



**COLUMBUS****BOLTON FLD** (TZR) 8 SW UTC-5(-4DT) N39°54.07' W83°08.22'

CINCINNATI

905 B S4 FUEL 100LL, JET A1+ OX 3 TPA-1705(800) NOTAM FILE TZR

H-10G, L-29A

RWY 04-22: H5500X100 (ASPH) S-48, D-75, ST-95, DT-150 MIRL

IAP, AD

RWY 04: MALS R. PAPI(P4L)—GA 3.0° TCH 40'.

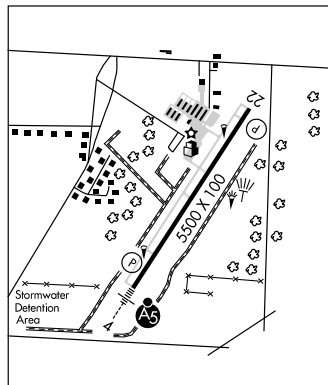
RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 31'. Trees.

**AIRPORT REMARKS:** Attended 1200-0200Z†. Balloon and banner activity on and in/ov arpt. Birds and deer and coyote on and in/ov arpt. When twr clsd MIRL Rwy 04-22 preset medium ints, to increase ints—ACTIVATE MALS Rwy 04 and REIL Rwy 22—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 135.925 (614) 878-1722**COMMUNICATIONS:** CTAF 128.1⑧ **COLUMBUS APP/DEP CON** 132.3**TOWER** 128.1 (1230-0030Z†) **GND CON** 121.8**AIRSPACE:** CLASS D svc 1230-0030Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.**APPLETON (H) VORTAC** 116.7 APE Chan 114 N40°09.06'W82°35.30' 246° 29.4 NM to fld. 1350/6W. **HIWAS.****BOUTN NDB (MHW/LOM)** 230 BU N39°49.16' W83°12.29'

038° 5.8 NM to fld. Unmonitored when twr clsd. NDB unusable 355°-010° byd 15 NM.

**ILS** 111.7 I-BUZ Rwy 04 LOM **BOUTN NDB.** Unmonitored when twr clsd. GS unmonitored when twr clsd. LOC unusable 355°-010° byd 15 NM.

**COMM/NAV/WEATHER REMARKS:** Emerg frequency not monitored all times.**COLUMBUS SOUTHWEST** (Ø4I) 11 SW UTC-5(-4DT) N39°54.67' W83°11.33'

CINCINNATI

920 B NOTAM FILE DAY

RWY 06-24: 2382X120 (TURF) LIRL

RWY 06: Trees.

RWY 24: Bldg.

**AIRPORT REMARKS:** Attended 1400-2200Z†. Rwy 06-24 undulating surface; rwy soft when wet; check NOTAMS or call arpt manager at 614-878-4080. Helicopters, acft towing banners and ultralights use rgt tfc. Rwy 06-24 has soft spots. For LIRL Rwy 06-24 and rotating bcn call 614-878-4080. Rwy 06-24 NSTD LIRL; Rwy 06-24 NSTD LIRL OTS indef.

**COMMUNICATIONS:** CTAF 122.9**DARBY DAN** (6I6) 10 W UTC-5(-4DT) N39°56.52' W83°12.29'

CINCINNATI

928 B FUEL 100LL, JET A NOTAM FILE DAY

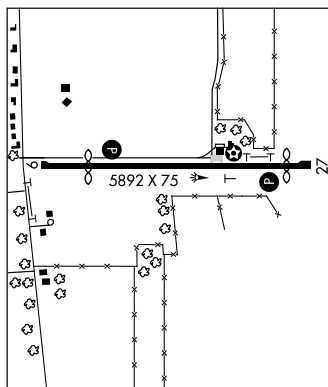
H-10G, L-29A

RWY 09-27: H5892X75 (ASPH) MIRL

RWY 09: REIL. PAPI(P4L). Thld dsplcd 1343'. Tree.

RWY 27: REIL. PAPI(P4L). Thld dsplcd 543'. Tree. Rgt tfc.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†. Prior arrangement for Sat-Sun call 614-853-2400. Rwy 09 PAPI OTS indef. Rwy 27 PAPI OTS indef. ACTIVATE MIRL Rwy 09-27; rotating bcns; REIL Rwy 09 and Rwy 27; PAPI Rwy 09 and Rwy 27—CTAF. Rwy 09 and Rwy 27 REILS OTS indef. Ldg fee.

**COMMUNICATIONS:** CTAF/UNICOM 122.7**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.**APPLETON (H) VORTAC** 116.7 APE Chan 114 N40°09.06'W82°35.30' 252° 31.1 NM to fld. 1350/6W. **HIWAS.****DEPARTMENT OF TRANSPORTATION HELIPORT** (2A7) 0 W UTC-5(-4DT)

CINCINNATI

N39°57.59' W83°02.65'

715 NOTAM FILE DAY

**HELIPAD H1:** H40X40 (ASPH)**HELIPORT REMARKS:** Attended continuously.**COMMUNICATIONS:** CTAF 122.9



OHIO STATE UNIVERSITY (OSU) 10 NW UTC-5(-4DT) N40°04.79' W83°04.38'

DETROIT

905 B S4 FUEL 100LL, JET A1 + OX 1, 2 Class IV, ARFF Index A NOTAM FILE OSU

H-106, L-29A

RWY 09R-27L: H5004X100 (ASPH-GRVD) S-45, D-60 HIRL

IAP, AD

RWY 09R: MALSR. VASI(V4L)—GA 3.0° TCH 31'. Pole.

RWY 27L: REIL. VASI(V4L)—GA 3.0° TCH 40'. Tree.

RWY 05-23: H3555X100 (ASPH) S-21, D-32 MIRL 0.3% up SW

RWY 05: Trees. RWY 23: Trees.

RWY 14-32: H3437X100 (ASPH) S-32.5, D-42, DT-61 MIRL

RWY 14: Trees. RWY 32: Trees

RWY 09L-27R: H2994X100 (ASPH) S-25.2 MIRL 0.4% up W

RWY 09L: VASI(V2L)—GA 3.0° TCH 29'. Silo.

RWY 27R: VASI(V2L)—GA 3.0° TCH 42'. Trees.

## LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 05	09L-27R	3350
RWY 09L	05-23	2550
RWY 09R	14-32	3300
RWY 14	09R-27L	2750
RWY 23	09R-27L	2500
RWY 27L	05-23	3300

## RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-3555 TODA-3555 ASDA-3555 LDA-3555

RWY 09L: TORA-2994 TODA-2994 ASDA-2994 LDA-2994

RWY 09R: TORA-5004 TODA-5004 ASDA-5004 LDA-5004

RWY 23: TORA-3555 TODA-3555 ASDA-3555 LDA-3555

RWY 27L: TORA-5004 TODA-5004 ASDA-5004 LDA-5004

RWY 27R: TORA-2994 TODA-2994 ASDA-2994 LDA-2994

AIRPORT REMARKS: Attended 1130-0400Z. Birds and deer on and in/ovf

arpt. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call arpt manager 614-292-5460. Noise sensitive area within 4 miles to the N and NE. Noise abatement restrictions: No touch and go lds or repeated tkf and lds 0400-1200Z daily. All movement area N of Rwy 09R-27L are not avbl for air carrier ops with more than 30 passenger seats. Snow removal operating procedures: when twr clsd announce arrival on freq 118.8. ACTIVATE MALSR Rwy 09R—CTAF. When twr clsd HIRL Rwy 09R-27L, MIRL Rwy 14-32 preset med ints and MIRL Rwy 09L-27R and Rwy 05-23 not avbl.

WEATHER DATA SOURCES: ASOS (614) 451-2465. LAWRS.

COMMUNICATIONS: CTAF 118.8 ATIS 121.35 UNICOM 122.95

⑧ COLUMBUS APP/DEP CON 120.2

STATE TOWER 118.8 (1200-0400Z) GND CON 121.7 CLNC DEL 121.7

AIRSPACE: CLASS D svc 1200-0400Z other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 265° 22.7 NM to fld. 1350/6W. HIWAS.

DON SCOTT NDB (MHW) 348 DKG N40°04.82' W83°04.73' at fld. NOTAM FILE OSU. Unmonitored when twr clsd. SHUTDOWN.

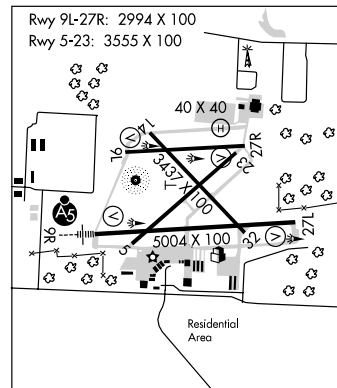
FULER NDB (MHW/LOM) 515 OS N40°04.42' W83°11.89' 091° 5.8 NM to fld.

ILS 108.5 I-OSU Rwy 09R LOM FULER NDB. Unmonitored when twr clsd.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H40X40 (ASPH)

HELIPORT REMARKS: Helipad relocated N side of airfield, near Air Guard ramp. All app/dep routes helicopters ops are conducted in an area 130°-110° clockwise using the touchdown pad as the center of a compass rose.





**PORT COLUMBUS INTL** (CMH) 6 E UTC-5(-4DT) N39°59.88' W82°53.51'

CINCINNATI

815 B S4 FUEL 100, JET A1 + OX 3, 4 LRA Class I, ARFF Index C NOTAM FILE CMH H-106, L-29A  
 RWY 10R-28L: H10125X150 (ASPH-GRVD) S-100, D-200, ST-175, DT-325 HIRL IAP, AD

RWY 10R: MALSR. PAPI(P4R)—GA 3.0° TCH 72'

RWY 28L: MALSR.

RWY 10L-28R: H8000X150 (ASPH-GRVD) S-100, D-160, ST-175, DT-275 HIRL

RWY 10L: MALSR. PAPI(P4L)—GA 3.0° TCH 51'

RWY 28R: MALSR. PAPI(P4R)—GA 3.0° TCH 50'.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 10L: TORA-8000 TODA-8000 ASDA-8000 LDA-8000

RWY 10R: TORA-10125 TODA-10125 ASDA-10125 LDA-10125

RWY 28L: TORA-10125 TODA-10125 ASDA-10125 LDA-10125

RWY 28R: TORA-8000 TODA-8000 ASDA-8000 LDA-8000

**AIRPORT REMARKS:** Attended continuously. Birds invof arpt. PAEW adjacent all rwys and twys. Model acft t/c within a 1 NM radius of a point 8 NM on a 010° bearing from the arpt; surface-5000 ft AGL; SR-SS daily. Be alert: Rwy 10L/28R restrictions on Stage I and II turbojet acft 0300-1300Z† and on Stage III turbojet acft 0300-1200Z†. Practice apchs for high noise level type acft including non-Stage III military jet acft shall not be approved unless Rwy 10R/28L is in use and the apch terminates in a full stop taxi-back ops. All surfaces around terminal; N of Twy 'C' and S of Twy 'E' are non-movement areas. Twy B3 S of Twy B restricted to acft with wingspan less than 79'. C-3 pavement (north of Twy C) is 35' wide; restricted to acft 50,000 lbs or less with wing span less than 79'. Twy L1 restricted to acft with wingspan less than 118'. Twy L2 restricted to acft with wingspan less than 118'. Twy J2 restricted to acft with wingspan less than 120'. Twy B between Twys B4 and B5 restricted to acft with wingspan less than 126'. Twys F and G, S of Twy B, restricted to acft weighing 45,000 lbs or less. Noise barrier located at SE side of airfield restricted to acft with wingspan less than 79'. Ldg fee. Twy F lgts S of Twy 'G' OTS indef. To req ldg rights ctc US Customs between 1230-0300Z† Mon-Fri at 614-497-1865. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (614) 338-0561. LLWAS. TDWR.

**COMMUNICATIONS:** D-ATIS 124.6 UNICOM 122.95

COLUMBUS RCO 122.2 122.3 (DAYTON RADIO)

® COLUMBUS APP/DEP CON 119.15 132.3 (100°-279°) 125.95 (280°-099°) 118.2 119.65

COLUMBUS TOWER 132.7 GND CON 121.9 CLNC DEL 126.3

**AIRSPACE:** CLASS C svc continuous ctc APP CON

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 243° 16.7 NM to fld. 1350/6W.

HIWAS.

GRENS NDB (MHW) 272 CHC N40°00.61' W83°01.74' 102° 6.4 NM to fld. NOTAM FILE CMH.

SUMIE NDB (HW/LOM) 391 CM N39°59.17' W82°45.27' 281° 6.4 NM to fld. Unmonitored.

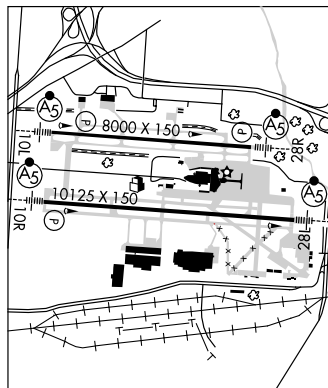
ILS/DME 109.1 I-CBP Chan 28 Rwy 10L. Class IA. LOM GRENS NDB. DME also serves Rwy 28R.

ILS/DME 108.7 I-CMH Chan 24 Rwy 28L. LOM SUMIE NDB. LOM unmonitored. DME also serves Rwy 10R.

ILS/DME 108.7 I-AQI Chan 24 Rwy 10R. DME also serves Rwy 28L.

ILS/DME 109.1 I-ONB Chan 28 Rwy 28R. DME also serves Rwy 10L. Glide slope unusable for autopilot coupled apchs blo 2023'.

**COMM/NAV/WEATHER REMARKS:** ILS/DME Rwy 10L outer marker OTS indef.





**RICKENBACKER INTL** (LCK)(KLCK) CIV/MIL/ANG/ARNG 10 S UTC-5(-4DT)

N39°48.83' W82°55.67'

744 B S4 FUEL 100LL, JET A TPA -See Remarks LRA Class I, ARFF Index A

NOTAM FILE LCK

**RWY 05R-23L:** H12102X200 (ASPH-CONC-GRVD) S-75, D-120,

ST-175, DT-380, DDT-800 HIRL CL

**RWY 05R:** ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 66'.

**RWY 23L:** MALSR. PAPI(P4L)-GA 3.0° TCH 74'.

**RWY 05L-23R:** H11937X150 (ASPH-GRVD) S-75, D-120, ST-175,

DT-240, DDT-700 HIRL

**RWY 05L:** MALSR. PAPI(P4L)-GA 3.0° TCH 75'. Thld dsplcd 919'.

**RWY 23R:** REIL. PAPI(P4L)-GA 3.0° TCH 75'. Thld dsplcd 1003'.

**MILITARY SERVICE:** LGT Boundary lgt avbl. JASU 2(A/M-32A) (MA-1A) 3(AM32-95) FUEL J8(Military) (NC-100LL). A, A+ (Lane Aviation, C614-237-3747 extension 218, avbl Mon-Fri 24 hours, Sat 0500-0200Z, Sun including holidays 0900-0500Z, 4 hour prior notice required but no PPR C237-3747 x 318, after hour fee \$130. FLUID SP PRESAIR LHOX OIL O-128 TRAN ALERT Ltd svc avbl but no PPR required. No ANG tran svc off ANG ramp.

**AIRPORT REMARKS:** Attended continuously. General aviation svcs

attended continuously call C614-237-3747 ext 318, or

614-409-4900. Birds on and invof arpt. Twy M clsd indef. Twy J

clsd to group V acft. Noise abatement procedures in effect from 0400-1200Z, dep Rwy 23L and 23R winds 10 knots or less; arrivals Rwy 05L and 05R winds 10 knots or less; arpt ops C614-492-2436. PPR for unscheduled Air Carrier ops with more than 30 passenger seats. Rwy 05R-23L has 1000' stopway on both ends; not avbl for ASDA. Rwy 05R-23L PAPI and ILS radar position indicator not coincidental. TPA for lgt acft weighing 12,500 lbs or less 1400(656), TPA for acft greater than 12,500 lbs 1900(1156), TPA for overhead tfc 2400(1656). Rwy 05R ALSF II unmonitored indef. Rwy 05R-23L PAPI and ILS Runway Point of Intercept not coincidental. To req ldg rights ctc US Customs between 1230-0300Z Mon-Fri at 614-497-1865.

**MILITARY REMARKS:** See FLIP AP/1 Supplementary Arpt Remarks. RSTD AMC acft opr restricted during Bird Watch Conditions Moderate (tkf and ldg permission only when departure/arrival routes avoid identification bird activity, no local IFR/VFR tfc pattern) and Severe (tkf and ldg prohibited without OG/CC approval) ctc Comd Post for current Bird Watch Conditions code. All military acft must RON on 121 ARW or Detachment-21 ramp when space is avbl. All fixed wing military acft requiring parking and/or svc on 121 ARW ramp must have PPR number 48 hr in advance from Base OPS DSN 696-4595, C614-492-4595. Base OPS hr vary. Clsd holidays. **CAUTION** Bird and deer hazard. **CSTMS/AG/IMG** Avbl only with prior coordination. **ANG** 121 ARW KC-135-R Comd Post DSN 696-4468. Limited tran svc avbl, weekdays 1200-2000Z except holidays. Limited tran fuel/parking, tran aircrew must assist/perform refuel opr. Fuel avbl on ANG ramp on prior request only. Acft support not coordinated by PPR 48 hr prior with 121 ARW may not be avbl. **ARNG** Opr weekdays 1200-2100Z except holidays. No tran svc after 1900Z, DSN 346-6411, C614-336-6411. Ctc C-26 OPS prior to entering C-26 ramp park area, 139.3 DSN 346-6473, C614-336-6473.

**WEATHER DATA SOURCES:** AWOS-3 132.750 (C614) 492-2441.

**COMMUNICATIONS:** UNICOM 122.95

Ⓡ **COLUMBUS APP/DEP CON** 119.15 279.6

**RICK TOWER** 120.05 348.4 **GND CON** 121.85 257.8

**ANG COMD POST** 238.8 (RICK CON) **ARNG OPS** 142.6 228.8 36.7 **ARNG C-26 OPS** 139.3 **121 ARW OPS** 238.8 (BRUTUS OPS)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.

**APPLETON (H) VORTAC** 116.7 APE Chan 114 N40°09.06' W82°35.30' 224° 25.6 NM to fld. 1350/6W. HIWAS.

(T) **TACAN** Chan 69 LCK (134.2) N39°48.49' W82°55.73' at fld. 732/5W. NOTAM FILE LCK. No NOTAM MP Wed 1300-1500Z.

TACAN azimuth unusable:

290°-300° blo 4,000'

130°-170° byd 18 NM blo 5,000'

TACAN azimuth and DME unusable:

075°-130° byd 12 NM blo 5,000'

075°-170° blo 3,000'

**COBBS NDB (LOM)** 253 DD N39°44.58' W83°01.22' 050° 6.0 NM to fld.

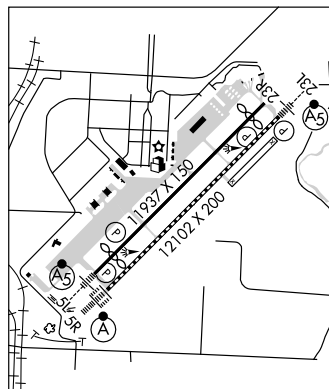
**PICKL NDB (LOM)** 376 LC N39°52.86' W82°50.17' 231° 5.9 NM to fld.

**ILS/DME** 110.1 I-DDV Chan 38 Rwy 05R. Class IIE. LOM COBBS NDB. No NOTAM MP Mon, Tue 1300-1700Z.

**ILS** 110.1 I-LCK Rwy 23L. Class IE. LOM PICKL NDB. MM OTS indef. No NOTAM MP Mon, Tue 1300-1700Z.

**ILS/DME** 110.55 I-FQS Chan 42Y Rwy 05L. Class IE.

**COMM/NAV/WEATHER REMARKS:** Ctc ground control for clearance prior to push back onto Twy A from cargo ramp 2.





**CONCORD AIRPARK** (See PAINESVILLE)**COSHOCTON****RICHARD DOWNING** (I40) 3 N UTC-5(-4DT) N40°18.55' W81°51.20'**DETROIT**979 B **FUEL** 100LL, JET A NOTAM FILE CLE**L-29B****RWY 04-22:** H4099X75 (ASPH) S-30, D-35 MIRL**IAP****RWY 04:** PAPI(P2L)—GA 3.5°. Trees. **RWY 22:** REIL. PAPI(P2L).**AIRPORT REMARKS:** Attended May-Oct 1300-0100Z†, Nov-Apr 1300-2200Z‡. Deer on and invof arpt. Rwy 22 REIL  
OTS indef. PAPI Rwy 04 and 22 opr continuously. ACTIVATE MIRL Rwy 04-22—122.9.**WEATHER DATA SOURCES:** AWOS-3 118.875 (740) 622-1267.**COMMUNICATIONS:** CTAF/UNICOM 123.0® **INDIANAPOLIS CENTER APP/DEP CON** 124.45**RADIO AIDS TO NAVIGATION:** NOTAM FILE ZZW.**ZANESVILLE (L) VOR/DME** 111.4 ZZW Chan 51 N39°56.45' W81°53.56' 011° 22.2 NM to fld. 900/6W.**COURT HOUSE** N39°36.05' W83°23.50' NOTAM FILE DAY.**CINCINNATI****NDB (MHW)** 414 CSS 222° 2.3 NM to Fayette Co. NDB unusable 115°-165° byd 20 NM.**L-29A**



**COVINGTON, KY****CINCINNATI/NORTHERN KENTUCKY INTL**

(CVG) 8 SW UTC-5(-4DT) N39°02.93' W84°40.07' CINCINNATI  
 896 B S4 FUEL 100LL, JET A LRA ARFF Index D NOTAM FILE CVG H-106, L-266, 27E  
 RWY 09-27: H12000X150 (ASPH-CONC-GRVD) S-75, D-210, ST-175, DT-400, DDT-850 IAP

HIRL CL

RWY 09: MALSR. PAPI(P4L)—GA 3.0° TCH 76'. 0.3% down.

RWY 27: MALSR(NSTD). VASI(V4L)—GA 3.0° TCH 60'.

RWY 18C-36C: H11000X150 (ASPH-CONC-GRVD) S-75, D-210, ST-175, DT-400, DDT-850 HIRL CL

RWY 18C: SSALR. TDZL. VASI(V4R)—GA 3.0° TCH 52'.

RWY 36C: ALSF2. TDZL. PAPI(P4L). 0.6% up

RWY 18L-36R: H10000X150 (CONC-GRVD) S-75, D-210, ST-175, DT-400, DDT-850 HIRL CL

RWY 18L: MALSR. TDZL. PAPI(P4R)

RWY 36R: ALSF2. TDZL. PAPI(P4R).

RWY 18R-36L: H8000X150 (CONC-GRVD) S-75, D-210, DT-400, DDT-850 HIRL CL

RWY 18R: ALSF2. TDZL.

RWY 36L: ALSF2. TDZL. Tree.

**RUNWAY DECLARED DISTANCE INFORMATION:**

RWY 09: TORA-12000 TODA-12000 ASDA-11880 LDA-11880

RWY 27: TORA-12000 TODA-12000 ASDA-12000 LDA-12000

**AIRPORT REMARKS:** Attended continuously. Rwy 09-27 W 4200' conc; E

750' conc; remainder asph overlay. For all rwys gross weight

strength for 777 acft is 595,000 lbs. For all rwys gross weight

strength for MD-11 acft is 605,000 lbs. Rws 09-27 and

18C-36C gross weight strength for DC-10 and L-1011 acft is

510,000 lbs. Noise sensitive areas N and S of arpt. Rwy 36R

touchdown, midfield and rollout rwy visual range avbl. Rwy

assignments between 0300-1200Z will be predicated on noise abatement considerations. Successive or

simultaneous departures from Rws 18L/C are approved with course divergence beginning no further than 2

miles from EOR due to noise abatement restrictions. Successive or simultaneous departures from Rwy 36L and

Rwy 36R are approved with course divergence beginning no further than 2 miles from EOR due to noise

abatement restrictions. Rwy 18R touchdown, midfield and rollout RVR avbl. Rwy 36L touchdown, midfield and

rollout RVR avbl. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Continuous Power

Facilities.

**WEATHER DATA SOURCES:** ASOS (859) 767-8210. TDWR.**COMMUNICATIONS:** D-ATIS ARR 134.375 D-ATIS DEP 135.3 UNICOM 122.95

RCO 122.1R 117.3T (LOUISVILLE RADIO)

① APP CON 123.875 (270°-089°) 119.7 (090°-269°)

TOWER 118.975 (Rwy 18L-36R) 118.3 (Rwy 18C-36C Rwy 09-27) 133.325 (Rwy 18R-36L) GND CON 121.7

(West) 121.3 (East) CLNC DEL 127.175

① DEP CON 128.7 (220°-040°) 126.65 (041°-219°)

**AIRSPACE:** CLASS B svc continuous ctc APP CON**RADIO AIDS TO NAVIGATION:** NOTAM FILE CVG.

(L) VORTAC 117.3 CVG Chan 120 N39°00.96' W84°42.20' 044° 2.6 NM to fld. 879/4W.

ILS 108.7 I-JDP Rwy 27. Class IA. LOC unusable byd 20° right of course.

ILS/DME 111.55 I-SIC Chan 52(Y) Rwy 18C. Class IB.

ILS/DME 111.9 I-URN Chan 56 Rwy 09. Class IB.

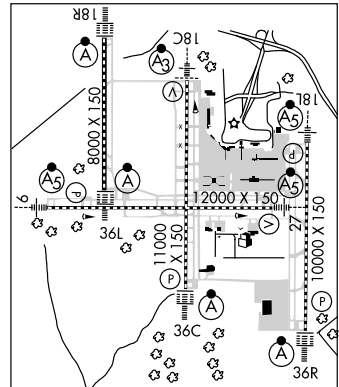
ILS/DME 109.9 I-CVG Chan 36 Rwy 36C. Class IIIE.

ILS/DME 110.35 I-EEI Chan 40(Y) Rwy 36R. Class IIIE.

ILS/DME 110.15 I-CIZ Chan 38(Y) Rwy 18L. Class IA. LOC unusable byd 25° left of course.

ILS/DME 110.75 I-VAC Chan 44(Y) Rwy 36L. Class IIIE.

ILS/DME 110.75 I-CJN Chan 44(Y) Rwy 18R. Class IIIE.

**CUBLA** N39°21.21' W83°52.55'. NOTAM FILE ILN.

CINCINNATI

NDB (MHW/LOM) 299 HW 045° 5.9 NM to Airborne Airport.

L-27E

**CUYAHOGA CO** (See CLEVELAND)**DAHIO TROTWOOD** (See Dayton)**DARKE CO** (See VERSAILLES)



**DAYTON** N40°00.99' W84°23.81' NOTAM FILE DAY. **DETROIT**  
 (L) VOR/DME 114.5 DQN Chan 92 131° 10.7 NM to **H-106, L-27E**  
 James M. Cox Dayton Intl. 990/1W. **HIWAS**. DME unusable byd 35 NM blo 2900'.  
**RCO** 122.1R 114.5T 122.2 122.55 (DAYTON RADIO)

**DAYTON**

**DAHO TROTWOOD** (I44) 7 W UTC-5(-4DT) N39°45.95' W84°20.60' **CINCINNATI**  
 925 B S5 **FUEL** 100LL NOTAM FILE DAY  
**RWY 04-22:** H2900X52 (ASPH) S-5  
**RWY 04:** Trees. **RWY 22:** Trees.  
**AIRPORT REMARKS:** Attended irregularly. Ultralights on and invof arpt. PAEW N end ramp and N end Twy A Mon-Fri. Arpt bcn OTS indef.  
**WEATHER DATA SOURCES:** **HIWAS** 114.5 DQN.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
**DAYTON APP/DEP CON** 126.5 (091°-180°)

**DAYTON TRANSPORTATION CENTER HELIPORT** (5D7) O N UTC-5(-4DT) **CINCINNATI**  
 N39°45.50' W84°11.50'  
 800 B NOTAM FILE DAY  
**HELIPAD H1:** H40X40 (CONC)  
**HELIPORT REMARKS:** Unattended. 40' x 40' conc pad within 80' x 60' ldg/tkf area. Maximum ldg weight 4500 lbs. For perimeter lgts and rotating bcn call superintendent of acft ops at 937-454-8299. 24 hrs advance notice for use req. Helipad H1 perimeter lgts.  
**WEATHER DATA SOURCES:** **HIWAS** 114.5 DQN.  
**COMMUNICATIONS:** CTAF 122.9

**DAYTON-WRIGHT BROTHERS** (MGY) 10 S UTC-5(-4DT) N39°35.34' W84°13.49' **CINCINNATI**  
 957 B S4 **FUEL** 100LL, JET A OX 1 TPA-1957(1000) NOTAM FILE MGY **H-106, L-27E**  
**RWY 02-20:** H5000X100 (ASPH-GRVD) S-50, D-60 MIRL 0.4% up N **IAP**  
**RWY 02:** PAPI(P2L)-GA 3.0°. Trees. **RWY 20:** MALS. VASI(V4L)-GA 3.0° TCH 41'. Thld dsplcd 590'. Road.  
**AIRPORT REMARKS:** Attended 1300-0100Z†. Birds and deer on and invof arpt. ACTIVATE MIRL RWY 02-20; MALS Rwy 20-CTAF. PAPI Rwy 02 and VASI Rwy 20 ops 24 hrs.  
**WEATHER DATA SOURCES:** ASOS 118.375 (937) 885-2171. **HIWAS** 114.5 DQN.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 (R) **APP CON** 126.5 (091°-180°) 118.85 127.225 (R) **DEP CON** 126.5 (091°-180°) **CLNC DEL** 119.4 (937) 454-7282  
**RADIO AIDS TO NAVIGATIONS:** NOTAM FILE FFO.  
**MIDWEST (T) VORW/DME** 112.9 MXQ Chan 76 N39°25.78' W83°48.07' 300° 21.9 NM to fld 1050/4W.  
**ONIDA NDB (LOM)** 223 MW N39°34.69' W84°19.42' 086°4.6 NM to fld. NOTAM FILE MGY. Unmonitored.  
**ILS/DME** 109.5 I-MGY Chan 32 Rwy 20 LOC only. LOC unusable inside 1.2 NM.

**GREENE CO-LEWIS A. JACKSON RGNL** (I19) 10 E UTC-5(-4DT) N39°41.46' W83°59.52' **CINCINNATI**  
 949 B S4 **FUEL** 100LL, JET A+ NOTAM FILE DAY **L-27E**  
**RWY 07-25:** H4500X75 (ASPH) S-30 LIRL 0.7% up E **IAP**  
**RWY 07:** REIL. PAPI(P2L)-GA 4.0° TCH 34'. Trees. **RWY 25:** REIL. PAPI(P2L). Trees.  
**AIRPORT REMARKS:** Attended Apr-Oct 1300-0100Z†; Nov-Mar 1300-2200Z†. Unattended Christmas, New Years and Thanksgiving Days. Fuel available 24 hrs with credit card. Deer on and invof arpt. PAEW adjacent Rwy 07 SR-SS. REIL Rwy 25 OTS indef. ACTIVATE MIRL Rwy 07-25 PAPI Rwy 25 and REIL Rwy 07 and Rwy 25-CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 118.525 (937) 372-4668. **HIWAS** 114.5 DQN.  
**COMMUNICATIONS:** CTAF/UNICOM 122.7  
 (R) **DAYTON APP/DEP CON** 126.5 (091°-180°)  
**GCO** 121.725 (DAYTON CLNC)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ILN.  
**MIDWEST (T) VORW/DME** 112.9 MXQ Chan 76 N39°25.78' W83°48.07' 335° 18 NM to fld. 1050/4W.  
 Unmonitored when twr clsd.



**JAMES M COX DAYTON INTL** (DAY) 9 N UTC-5(-4DT) N39°54.14' W84°13.16'

CINCINNATI

1009 B S4 FUEL 100, JET A OX 1 LRA ARFF Index—See Remarks NOTAM FILE DAY H-106, L-27E

RWY 06L-24R: H10900X150 (ASPH-CONC-GRVD) S-100, D-210, ST-175, DT-583, DDT-870

IAP, AD

HIRL CL

RWY 06L: ALSF2. TDZL.

RWY 24R: MALSR. VASI(V4L)—GA 3.0° TCH 54'. Tree.

RWY 18-36: H8502X150 (ASPH-CONC-GRVD) S-100, D-210, ST-175, DT-583, DDT-870 HIRL

RWY 18: MALSR. Trees.

RWY 36: REIL. VASI(V4L)—GA 3.0° TCH 46'. Trees.

RWY 06R-24L: H7001X150 (ASPH-CONC-GRVD) S-100, D-210, ST-175, DT-583, DDT-870 HIRL

RWY 06R: REIL. PAPI(P4L)—GA 3.0°. TCH 52'. Tree.

RWY 24L: MALSR. PAPI(P4L)—GA 3.0°. TCH 51'. Pole.

**AIRPORT REMARKS:** Attended continuously. Deer, coyotes, birds and waterfowl on and in/ovf arpt. First 1400' Rwy 24R concrete. First 1500' of Rwy 18 concrete. Rwy 36 VASI OTS indef. Class I, ARFF Index C. ARFF index E avbl with 24 hrs notice; call arpt operations 937-454-8299. Twy H clsd between Twy D and Rwy 18-36 indef. Twy C, Twy K, Twy H and Twy J not avbl for air carrier ops. Terminal ramp is a non-movement area. Runups prohibited in Rwy 24L holding area. Flight Notification Service (ADCUS) available.

**WEATHER DATA SOURCES:** ASOS (937) 454-7845. HIWAS 114.5 DQN.

TDWR.

**COMMUNICATIONS:** ATIS 125.8 UNICOM 122.95

DAYTON RCO 122.1R 114.5T 122.2 122.55 (DAYTON RADIO)

① DAYTON APP/DEP CON 118.85 126.45 (091°-180°) 134.45 (181°-359°) 118.425 (360°-090°) 118.0 126.5

DAYTON TOWER 119.9 GND CON 121.9 CLNC DEL 121.75

**AIRSPACE:** CLASS C svc continuous ctc APP CON

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.

DAYTON (L) VOR/DME 114.5 DQN Chan 92 N40°00.99' W84°23.81' 131° 10.7 NM to fld. 990/1W.

HIWAS.

BRUNY NDB (LOM) 315 AT N39°50.82' W84°20.09' 062° 6.3 NM to fld.

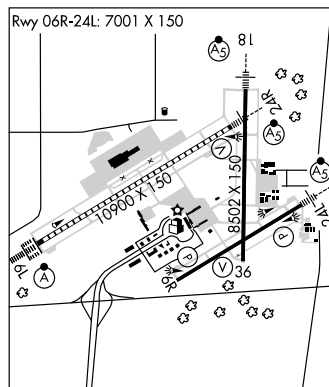
ILS 108.3 I-DAY Rwy 18.

ILS 108.9 I-ATD Rwy 06L. LOM BRUNY NDB.

ILS 110.3 I-EGK Rwy 24L.

ILS 111.9 I-VUQ Rwy 24R. Class IE.

ASR



**MORaine AIR PARK** (I73) 4 SW UTC-5(-4DT) N39°40.95' W84°14.58'

CINCINNATI

L-27E

720 FUEL 100LL NOTAM FILE DAY

RWY 08-26: H3500X65 (ASPH) MIRL

RWY 08: Thld dsplcd 558'. Dike.

RWY 26: Thld dsplcd 136'. Dike.

**AIRPORT REMARKS:** Attended dalgt hrs. PAEW adjacent twys.

**WEATHER DATA SOURCES:** HIWAS 114.5 DQN.

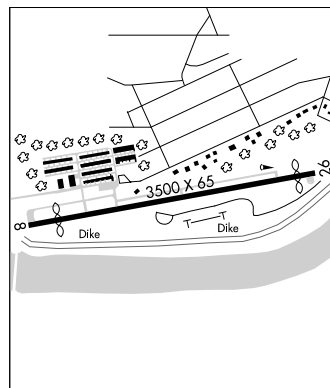
**COMMUNICATIONS:** CTAF/UNICOM 122.7

DAYTON APP/DEP CON 126.5 (091°-180°)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FFO.

SPRINGFIELD (T) VOR/DME 113.2 SGH Chan 79 N39°50.19'

W83°50.70' 248° 20.6 NM to fld. 1047/4W.



**DARBY DAN** (See COLUMBUS)



**DEFIANCE MEM** (DFI) 4 NW UTC-5(-4DT) N41°20.25' W84°25.73' **DETROIT**  
 707 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE DFI **L-28J**  
**RWY 12-30:** H4197X72 (ASPH) MIRL **IAP**  
**RWY 12:** REIL. PAPI(P4L). Trees. **RWY 30:** REIL. VASI(NSTD). Trees.  
**AIRPORT REMARKS:** Attended Mon-Fri 1300-2300Z†, Sat 1300-2200Z†, Sun 1700-2200Z†. Rwy 30 single box VASI left side of rwy. Rwy 12-30 parallel twy rstd to 5,000 lbs max gross weight. MIRL Rwy 12-30 preset low ints; to increase ints and ACTIVATE REILS Rwy 02 and Rwy 30—CTAF.  
**WEATHER DATA SOURCES:** ASOS 121.425 (419) 658-2301.  
**COMMUNICATIONS:** CTAF/UNICOM 122.7  
 (R) **TOLEDO APP/DEP CON** 134.35  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.  
**WATERVILLE (L) VOR/DME** 113.1 VVW Chan 78 N41°27.09' W83°38.32' 261° 36.3 NM to fld. 660/2W.  
**NDB (MHW)** 246 DFI N41°20.07' W84°25.61' at fld. NOTAM FILE DFI.

**DELAWARE MUNI** (DLZ) 3 SW UTC-5(-4DT) N40°16.78' W83°06.89' **DETROIT**  
 945 B S4 FUEL 100LL, JET A NOTAM FILE DAY **H-106, L-29A**  
**RWY 10-28:** H5000X100 (ASPH) S-30, D-55 MIRL **IAP**  
**RWY 10:** REIL. PAPI(P4L)—GA 3.0°. **RWY 28:** REIL. PAPI(P4L)—GA 3.0°. Trees.  
**AIRPORT REMARKS:** Attended 1300-2200Z†. Deer on and invof arpt. Ultralight tfc remain S of Rwy 10-28 at 400' AGL. Rwy 28 PAPI OTS indef. REIL Rwy 10 OTS indef. ACTIVATE MIRL Rwy 10-28—CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 119.025 (740) 362-4416.  
**COMMUNICATIONS:** CTAF/UNICOM 122.7  
 (R) **COLUMBUS APP/DEP CON** 120.2  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.  
**APPLETON (H) VORTAC** 116.7 APE Chan 114 N40°09.06' W82°35.30' 294° 25.4 NM to fld. 1350/6W.  
**HIWAS.**  
**NDB (MHW)** 215 DLZ N40°16.61' W83°06.22' at fld.

#### DEPARTMENT OF TRANSPORTATION HELIPORT (See COLUMBUS)

**DESHLER MUNI LANDING STRIP** (6D7) 2 NE UTC-5(-4DT) N41°12.95' W83°52.46' **DETROIT**  
 706 NOTAM FILE CLE  
**RWY 09-27:** 2480X70 (TURF)  
**RWY 09:** Thld dsplcd 740'. Trees. **RWY 27:** Trees.  
**RWY 05-23:** 1725X60 (TURF)  
**RWY 05:** Thld dsplcd 410'. Bldg. **RWY 23:** Thld dsplcd 90'. Fence.  
**AIRPORT REMARKS:** Unattended. Birds and deer on and invof arpt. Rwy 05-23 dsplcd thlds marked with yellow cones. Rwy 09 dsplcd thld marked with cones.  
**COMMUNICATIONS:** CTAF 122.9

**DON SCOTT** N40°04.82' W83°04.73' NOTAM FILE OSU. **DETROIT**  
**NDB (MHW)** 348 DKG at Ohio State University. Unmonitored when twr clsd. SHUTDOWN. **L-29A**

**DRYER** N41°21.48' W82°09.72' NOTAM FILE CLE. **DETROIT**  
**(H) VOR/DME** 113.6 DJB Chan 83 226° 1.1 NM to Lorain Co Rgnl. 780/5W. **HIWAS.** **H-106, L-30G**  
**VOR** unusable 225°-245° byd 20 NM blo 3500'.  
**RCO** 122.1R 113.6T (CLEVELAND RADIO)



**EAST LIVERPOOL****COLUMBIANA CO**

(Ø2G) 4 NW UTC-5(-4DT) N40°40.40' W80°38.49'

1160 B S3 FUEL 100LL NOTAM FILE CLE

RWY 07-25: H3503X75 (ASPH) S-12.5 MIRL 0.5% up NE

RWY 07: Trees. RWY 25: REIL. PAPI(P4L)—GA 3.0° TCH 26'.

Trees.

**AIRPORT REMARKS:** Attended 1300Z†-dusk. Arpt unattended all major holidays. PAEW between twy and rwy. PAEW invof twy and ramp. Twy marked with reflectors. ACTIVATE MIRL Rwy 07-25, PAPI Rwy 25 and REIL Rwy 25-CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0.

® PITTSBURGH APP/DEP CON 124.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE A00.

ELLWOOD CITY (H) VORTAC 115.8 EWC Chan 105 N40°49.51'

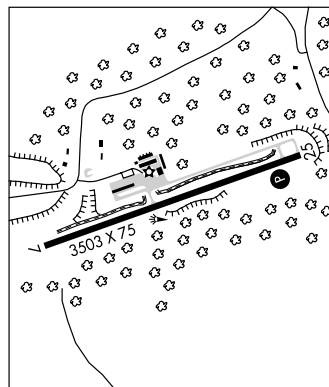
W80°12.69' 253° 21.6 NM to fld.

1227/08W. VOR unusable 090°-140° and 310°-335°

DETROIT

L-29B

IAP

**EDDIE DEW MEML AIRPARK** (See TORONTO)**ELLIOTTS LANDING** (See MOUNT VICTORY)**ELYRIA** (1G1) 2 S UTC-5(-4DT) N41°19.89' W82°06.02'

758 B FUEL 100LL NOTAM FILE CLE

RWY 09-27: H3053X48 (ASPH) LIRL

RWY 09: Tree. RWY 27: Tree.

**AIRPORT REMARKS:** Unattended. Fuel avbl 24 hrs with credit card.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® CLEVELAND APP/DEP CON 126.35 CLNC DEL 125.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48'

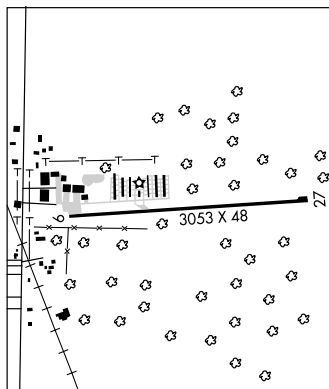
W82°09.72' 125° 3.2 NM to fld. 780/5W. HIWAS

**COMM/NAV/WEATHER REMARKS:** For IFR clearance ctc Cleveland apch control at 216-898-2040.

DETROIT

L-30G

IAP

**FAIRFIELD CO** (See LANCASTER)**FAYETTE CO** (See WASHINGTON COURT HOUSE)**FETCH** N41°12.03' W80°35.77' NOTAM FILE YNG.

NDB (LOM) 338 YN 322° 5.1 NM to Youngstown-Warren Rgnl. Unmonitored. LOM unusable byd 10 NM.

DETROIT



**FINDLAY** (FDY) 1 SW UTC-5(-4DT) N41°00.72' W83°40.12'

813 B FUEL 100LL, JET A NOTAM FILE FDY

RWY 18-36: H6498X100 (ASPH) S-100, D-160, ST-175, DT-280 HIRL

RWY 18: REIL. PAPI(P4L)—GA 3.0°TCH 31'.

RWY 36: REIL. PAPI(P4L)—GA 3.5°TCH 55'. Trees.

RWY 07-25: H5883X100(ASPH) S-100, D-160, ST-175, DT-280 HIRL

RWY 07: REIL. PAPI(P4L)—GA 3.0°TCH 39'. Thld displcd 324'.

Bridge.

RWY 25: REIL. PAPI(P4L)—GA 3.5°TCH 36'. Thld displcd 999'. Road.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 07: TORA-5251 TODA-5251 ASDA-4881 LDA-4558

RWY 25: TORA-5786 TODA-5786 ASDA-5558 LDA-4558

**AIRPORT REMARKS:** Attended Sep-May Mon-Fri 1200-0100Z†, Jun-Aug

Mon-Fri 1200-0200Z†, Sat-Sun 1400-2300Z†. Rwy 07-25 sfc

has cracks and loose aggregate. ACTIVATE HIRL Rwy 07-25 and

Rwy 18-36; REIL Rwy 07, Rwy 25, Rwy 18 and Rwy 36—CTAF.

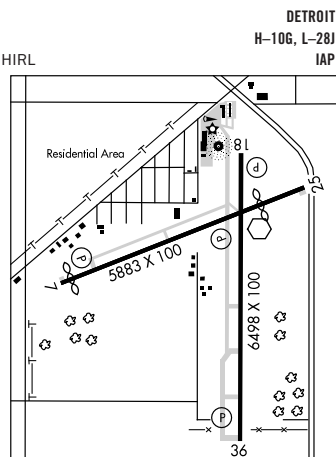
PAPI Rwy 07, Rwy 18, Rwy 25, and Rwy 36 opr 24 hrs. Ldg fee.

**WEATHER DATA SOURCES:** ASOS 124.425 (419) 427-8524.**COMMUNICATIONS:** CTAF/UNICOM 122.725RCO 122.1R 108.2T (CLEVELAND RADIO) RCO 122.65 122.2  
(CLEVELAND RADIO)**(R) TOLEDO APP/DEP CON 120.8****RADIO AIDS TO NAVIGATION:** NOTAM FILE FDY.

(L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 051° 5.2 NM to fld. 820/2W.

MARATHON (T) VORW 114.9 MAH N41°00.89' W83°39.86' at fld. Unmonitored.

BENTON RIDGE NDB (MHW) 334 BNR N41°01.27' W83°40.15' at fld. Unmonitored.

**FOSTORIA METRO** (FZI) 2 NE UTC-5(-4DT) N41°11.45' W83°23.59'

752 B S4 FUEL 100LL, JET A NOTAM FILE CLE

RWY 09-27: H5005X100 (ASPH) S-30, D-35, DT-52 MIRL

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 25'. Trees.

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 25'. Tree.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z†. FBO ops Mon-Sat 1200-2100Z†. PAPI Rwy 09 and 27 on low

ints 24 hrs. To increase ints to high click 122.7 7 times. ACTIVATE MIRL Rwy 09-27 and REIL Rwy 09 and

27—CTAF. Rwy 09 REIL OTS indef. Rwy 09 PAPI OTS indef. Twy lgts intermittent.

**WEATHER DATA SOURCES:** AWOS-3 124.625 (419) 436-0053.**COMMUNICATIONS:** CTAF/UNICOM 122.7

FINDLAY RCO 122.1R 108.2T (CLEVELAND RADIO)

**(R) TOLEDO APP/DEP CON 126.1****RADIO AIDS TO NAVIGATION:** NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 051° 21.7 NM to fld. 820/2W.

NDB (MHW) 379 FZI N41°11.36' W83°23.83' at fld. NOTAM FILE CLE.

**FREMONT****FREMONT** (14G) 2 SW UTC-5(-4DT) N41°19.99' W83°09.67'

663 B S4 FUEL 80, 100LL NOTAM FILE CLE

RWY 09-27: H4137X60 (ASPH) S-13 LIRL

RWY 09: REIL. VASI(NSTD). Thld displcd 126'. Road.

RWY 27: Trees.

RWY 18-36: 2238X130 (TURF)

RWY 18: Trees.

RWY 36: P-line.

**AIRPORT REMARKS:** Attended Mon-Sat 1300Z†-2200Z†, Sun 1700Z†-2200Z†. For fuel after hrs call 419-332-0046.

ACTIVATE LIRL Rwy 09-27; REIL Rwy 09 and rotating bcn—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**(R) TOLEDO APP/DEP CON 126.1****RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

WATERVILLE (L) VOR/DME 113.1 VVV Chan 78 N41°27.09' W83°38.32' 110° 22.7 NM to fld. 660/2W.



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**SANDUSKY CO RGNL** (S24) 5 SE UTC-5(-4DT) N41°17.74' W83°02.23'

DETROIT

665 B S2 FUEL 100LL, JET A OX 2 NOTAM FILE CLE

H-106, L-28J

RWY 06-24: H5500X100 (ASPH) S-30 MIRL

IAP

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 44'. Tree.

RWY 24: REIL. PAPI(P4L)—GA 3.0° TCH 42'.

**AIRPORT REMARKS:** Attended 1200-2300Z†. After hrs call 419-547-0131 or 419-360-3610. Birds and deer on and in/ov arpt. ACTIVATE MRL Rwy 06-24—CTAF. Ldg fee for light twin acft 4500 pounds and larger.

**WEATHER DATA SOURCES:** AWOS-3 119.575 (419) 547-6932.**COMMUNICATIONS:** CTAF/UNICOM 123.05

Ⓡ MANSFIELD APP/DEP CON 127.35 (360°-180°) 1100-0400Z†

Ⓡ CLEVELAND CENTER APP/DEP CON 127.9 (360°-180°) 0400-1100Z†

Ⓡ TOLEDO APP/DEP CON 126.1 (180°-360°)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

(L) VOR/DME 109.2 SKY Chan 29 N41°26.07' W82°39.29' 248° 19.2 NM to fld.

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**FULER** N40°04.42' W83°11.89' NOTAM FILE OSU.

DETROIT

NDB (MHW/LDM) 515 OS 091° 5.8 NM to Ohio State University.

L-29A

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**FULTON CO** (See WAUSEON)

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**GALION MUNI** (GQQ) 3 NE UTC-5(-4DT) N40°45.20' W82°43.43'

DETROIT

1224 B S4 FUEL 100LL NOTAM FILE CLE

L-29A

RWY 05-23: H3505X75 (ASPH) S-12 MIRL

IAP

RWY 05: REIL. PAPI(P4L)—GA 3.0° TCH 33'. Thld dsplcd 188'. P-line.

RWY 23: REIL. VASI(V2L)—GA 3.0° TCH 26'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†. Student training activity. Fuel self service-24 hrs with credit card. Rwy 23 VASI OTS indef. ACTIVATE MRL Rwy 05-23; VASI and REIL Rwy 23; REIL Rwy 05 2300-1100Z†—CTAF. ACTIVATE PAPI Rwy 05—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

MANSFIELD RCO 122.6 122.1R 108.8T (CLEVELAND RADIO)

Ⓡ MANSFIELD APP/DEP CON 124.2 (1100-0400Z†) CLNC DEL 126.8

CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12' W82°35.46' 224° 9.2 NM to fld. 1210/3W.

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**GALLIA-MEIGS RGNL** (See GALLIPOLIS)

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**GALLIPOLIS** N38°50.01' W82°09.69' NOTAM FILE DAY.

CINCINNATI

NDB (MHW) 420 GAS at Gallia-Meigs Rgnl. VFR only.

RCO 121.65 (DAYTON RADIO)

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## GALLIPOLIS

**GALLIA-MEIGS RGNL** (GAS) 2 NE UTC-5(-4DT) N38°50.05' W82°09.81'

CINCINNATI

566 B S2 FUEL 100LL, JET A1+ NOTAM FILE DAY

L-26H

RWY 05-23: H3998X75 (ASPH) S-30 MIRL

IAP

RWY 05: PAPI(P2L)—GA 3.0° TCH 40'. Fence.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Brush.

**AIRPORT REMARKS:** Attended 1400-2200Z†. FBO CLOSED Thanksgiving, Christmas and New Years Day. Deer and birds on and in/ov arpt. Rwy 23 REIL OTS indef. ACTIVATE MRL Rwy 05-23; PAPI Rwy 05 and 23, REIL Rwy 23—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.925 (740) 446-2149.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ HUNTINGTON APP/DEP CON 128.4 CLNC DEL 124.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE EKN.

HENDERSON (H) VORTAC 115.9 HNN Chan 106 N38°45.25' W82°01.57' 310° 8 NM to fld. 880/03W.

GALLIPOLIS NDB (MHW) 420 GAS N38°50.01' W82°09.69' at fld. NOTAM FILE DAY. VFR only.

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## GARRETTSVILLE

**GATES** (7D8) 4 N UTC-5(-4DT) N41°21.07' W81°05.97'

DETROIT

1110 NOTAM FILE CLE

Not insp.

RWY 08-26: 2800X100 (TURF-GRVL)

RWY 08: Fence.

RWY 26: Trees.

**AIRPORT REMARKS:** Attended Apr-Nov dalgt hrs. Ldg PPR only Dec thru Mar call 216-548-4511. Parachute Jumping. Rwy drops 10' on E end. Rwy 26 has 16' hill/brush starting 0' from rwy apch end.

**COMMUNICATIONS:** CTAF 122.9

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**GATES** (See GARRETTSVILLE)



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**GEAUGA CO** (See MIDDLEFIELD)
 

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**GENEVA**
**GERMACK** (7D9) 3 SE UTC-5(-4DT) N41°46.67' W80°54.24'

DETROIT

820 NOTAM FILE CLE

L-30G

RWY 01-19: H3250X28 (ASPH) LIRL (NSTD)

RWY 01: Tree. RWY 19: Trees.

**AIRPORT REMARKS:** Unattended. Deer on and in/ovf arpt. Radio controlled model acft activity on and in/ovf arpt. No line of sight between rwy ends. Rwy 01-09 rolling sfc. Rwy 01-19 LIRL spacing nstd. ACTIVATE NSTD LIRL Rwy 01-19-CTAF.

**COMMUNICATIONS:** CTAF 122.9 UNICOM 122.95**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

JEFFERSON (L) VOR/DME 115.2 JFN Chan 99 N41°45.61' W80°44.89' 284° 7.1 NM to fld. 900/5W.

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**GEORGETOWN**
**BROWN CO** (GEO) 1 NE UTC-5(-4DT) N38°52.92' W83°52.97'

CINCINNATI

958 B FUEL 100LL NOTAM FILE DAY

L-26G, 27E

RWY 17-35: H3530X65 (ASPH) MIRL

IAP

RWY 17: Road. RWY 35: Road.

**AIRPORT REMARKS:** Unattended. For airframe and powerplant repairs phone 937-379-1055. Self service fuel avbl 24 hrs with credit card. Aerobatic practice surface to 4500' AGL above Rwy 17-35. ACTIVATE MIRL Rwy 17-35-CTAF.

**COMMUNICATIONS:** CTAF 122.9

® INDIANAPOLIS CENTER APP/DEP CON 135.575

**RADIO AIDS TO NAVIGATION:** NOTAM FILE LOU.

FALMOUTH (H) VOR/DME 117.0 FLM Chan 117 N38°38.97' W84°18.64' 059° 24.4 NM to fld. 810/4W.

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**GERMACK** (See GENEVA)
 

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**GRAND LAKE ST MARYS SPB** (See ST MARYS)
 

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**GREATER PORTSMOUTH RGNL** (See PORTSMOUTH)
 

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**GREENE CO-LEWIS A JACKSON RGNL** (See DAYTON)
 

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**GREEN SPRINGS**
**WEIKER** (82D) 2 SE UTC-5(-4DT) N41°13.75' W83°01.74'

DETROIT

740 S4 NOTAM FILE CLE

RWY 18-36: 1785X90 (TURF)

RWY 18: Trees. RWY 36: Trees.

**AIRPORT REMARKS:** Attended irregularly. Radio controlled model flying activity on weekends. Rwy 18-36 marked with +2' white and orange waste tubs on E side only; Rwy 18 first 132' has no markers.

**COMMUNICATIONS:** CTAF 122.9

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**GRENS** N40°00.61' W83°01.74' NOTAM FILE CMH.

CINCINNATI

NDB (MHW) 272 CHC 102° 6.4 NM to Port Columbus Intl. OTS indef.

L-29E

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**GRIFFING-SANDUSKY** (See SANDUSKY)
 

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**GRIMES FLD** (See URBANA)
 

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**HAMILTON** N39°22.37' W84°34.33' NOTAM FILE DAY.

CINCINNATI

NDB (MHW) 260 HAO 107° 2.4 NM to Butler Co Rgnl.

L-27E



**HAMILTON****BUTLER CO RGNL** (HAO) 3 SE UTC-5(-4DT) N39°21.83' W84°31.32'**CINCINNATI**  
H-106, L-27E  
IAP

633 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE HAO

RWY 11-29: H5500X100 (ASPH) S-60, D-75, DT-39 MIRL

RWY 11: REIL. PAPI (P4L)—GA 3.5° TCH 26'. Bldg.

RWY 29: MALSR. REIL. PAPI (P4L)—GA 3.0° TCH 25'. P-line.

**AIRPORT REMARKS:** Attended Nov-Mar 1200-0200Z, Apr-Oct 1200-0300Z. ACTIVATE MIRL Rwy 11-29 and REIL Rlys 11 and 29 and MALSR Rwy 29—CTAF.**WEATHER DATA SOURCES:** ASOS 121.425 (513) 863-6137**COMMUNICATIONS:** CTAF/UNICOM 123.05Ⓡ **CINCINNATI APP/DEP CON** 121.0 **CLNC DEL** 126.25**RADIO AIDS TO NAVIGATION:** NOTAM FILE CVG.**CINCINNATI (L) VORTAC** 117.3 CVG Chan 120 N39°00.96' W84°42.20' 026° 22.5 NM to fld. 879/04W.**HAMILTON NDB (MHW)** 260 HAO N39°22.37' W84°34.33' 107° 2.4 NM to fld. NOTAM FILE DAY.**ILS/DME** 109.75 I-RQF Chan 34(Y) Rwy 29. Class IT. LOC unusable byd 20° right of course.**HARDIN CO** (See KENTON)**HARLAN AIRFIELD** (See LAGRANGE)**HARRISON****CINCINNATI WEST** (I67) 2 E UTC-5(-4DT) N39°15.54' W84°46.46'**CINCINNATI**  
L-27E  
IAP

584 B S4 FUEL 100LL NOTAM FILE DAY

RWY 01-19: H2803X60 (ASPH) MIRL

RWY 01: Thld dsplcd 308'. P-line. RWY 19: Thld dsplcd 220'. Tree.

RWY 09-27: 1809X100 (TURF)

RWY 09: Tree. RWY 27: Tree.

**AIRPORT REMARKS:** Attended Oct-Apr 1300Z-dusk, May-Sep 1300-0100Z. Unattended all major holidays. For Jet A availability call 513-367-0231. Rwy 09-27 CLOSED indef.**COMMUNICATIONS:** CTAF/UNICOM 123.0Ⓡ **APP/DEP CON** 128.7**RADIO AIDS TO NAVIGATION:** NOTAM FILE CVG.(L) **VORTAC** 117.3 CVG Chan 120 N39°00.96' W84°42.20' 351° 14.9 NM to fld. 879/04W.**HARRISON CO** (See CADIZ)**HARRY CLEVER FLD** (See NEW PHILADELPHIA)**HENRY CO** (See NAPOLEON)**HENDERSON** (WV) N38°45.25' W82°01.57' NOTAM FILE EKN.**CINCINNATI**  
H-106, L-22F(H) **VORTAC** 115.9 HNN Chan 106 334° 39.5 NM to Vinton Co. 860/3W.

DME portion unusable 185°-194° byd 10 NM blo 8000'; 195°-204° byd 30 NM blo 8000'.

**HIGHLAND CO** (See HILLSBORO)**HILLSBORO** N39°11.08' W83°32.58'. NOTAM FILE DAY.**CINCINNATI**  
L-29A**NDB (MHW)** 278 HOC at Highland Co.**RCO** 122.2 (DAYTON RADIO)**HILLSBORO****HIGHLAND CO** (HOC) 3 SE UTC-5(-4DT) N39°11.33' W83°32.33'**CINCINNATI**  
L-29A  
IAP

977 B S4 FUEL 100LL, JET A TPA-1677(700) NOTAM FILE DAY

RWY 05-23: H3520X75 (ASPH) S-25 MIRL 1.3% UP SW

RWY 05: Trees RWY 23: REIL. PAPI (P2L). Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z, Sun 1700-2200Z. Rwy 05-23 lgts NW side OTS indef. Rwy 23 REIL OTS indef. ACTIVATE MIRL Rwy 05-23 and REIL Rwy 23—CTAF.**WEATHER DATA SOURCES:** AWOS-3 118.175 (937) 393-9038.**COMMUNICATIONS:** CTAF/UNICOM 123.05**HILLSBORO RCO** 122.2 (DAYTON RADIO)**INDIANAPOLIS CENTER APP/DEP CON** 134.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE LOU.**YORK (L) VORTAC** 112.8 YRK Chan 75 N38°38.65' W82°58.70' 326° 41.9 NM to fld. 1040/5W.**HILLSBORO NDB (MHW)** 278 HOC N39°11.08' W83°32.58' at fld. NOTAM FILE DAY.**HINDE** (see HURON)



**HOGAF** N41°34.45' W81°28.27' NOTAM FILE CGF.  
NDB (LMM) 521 GF at Cuyahoga Co. SHUTDOWN.

DETROIT

**HOLLISTER FIELD** (See WILMINGTON)

**HOLMES CO** (See MILLERSBURG)

**HOOK FLD** N39°29.93' W84°26.85' NOTAM FILE DAY.  
NDB (MHW) 239 HKF 054° 3.1 NM to Middletown Rgnl/Hook Fld. NDB OTS indef.

CINCINNATI  
L-27E

**HUBBARD** N41°09.17' W80°31.89' NOTAM FILE CLE.  
NDB (MHW) 408 HBD 259° 4.2 NM to Lansdowne.

DETROIT  
L-30H

## HURON

**HINDE** (88D) 3 NW UTC-5(-4DT) N41°24.22' W82°36.08'

DETROIT

609 NOTAM FILE CLE

RWY 11-29: 2500X70 (TURF)

RWY 11: Road. RWY 29: Brush.

AIRPORT REMARKS: Unattended. Arpt CLOSED at ngt. Rwy soft when wet.

COMMUNICATIONS: CTAF 122.9

## JACKSON

**JAMES A RHODES** (I43) 5 SE UTC-5(-4DT) N38°58.88' W82°34.67'

CINCINNATI  
H-10G, L-29A  
IAP

726 B S4 FUEL 100LL, JET A1+ NOTAM FILE DAY

RWY 01-19: H5201X75 (ASPH) MIRL

RWY 01: Thld displcd 331'. Tree.

RWY 19: REIL. VASI(S2L). P-line.

AIRPORT REMARKS: Attended 1300-2100Z+. MIRL Rwy 01-19 preset low ints dusk-dawn, to increase ints and ACTIVATE—CTAF. Rwy 19 REIL OTS indef.

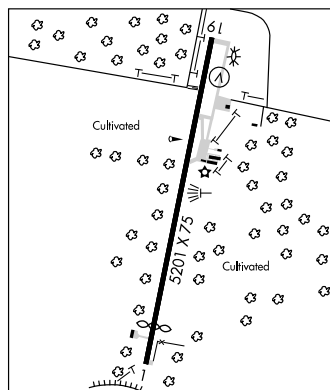
WEATHER DATA SOURCES: AWOS-3 118.825 (740) 286-1760.

COMMUNICATIONS: CTAF/UNICOM 122.7

® HUNTINGTON APP/DEP CON 128.4

RADIO AIDS TO NAVIGATION: NOTAM FILE EKN.

HENDERSON (H) VORTAC 115.9 HNN Chan 106 N38°45.25'  
W82°01.57' 301° 29.2 NM to fld. 880/03W.



**JAMES A RHODES** (See JACKSON)

**JAMES M COX DAYTON INTL** (See DAYTON)

## JAMESTOWN

**BLOOM** (14I) 2 SW UTC-5(-4DT) N39°38.00' W83°45.00'

CINCINNATI

1050 TPA-1850(800) NOTAM FILE DAY

RWY 06-24: 1220X80 (TURF)

RWY 06: Pole. RWY 24: Pole.

AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9

**JEFFERSON CO AIRPARK** (See STEUBENVILLE)

**JEFFERSON** N41°45.61' W80°44.89' NOTAM FILE CLE.

DETROIT  
L-30G

(L) VOR/DME 115.2 JFN Chan 99 070° 2.6 NM to Ashtabula Co. 900/5W.

DME unusable:

085°-125° byd 35 NM blo 3500'

126°-190° byd 20 NM blo 3500'

RCO 122.1R 115.2T (CLEVELAND RADIO)

191°-230° all alts and distances  
231°-260° byd 30 NM blo 3500'



**KELLEYS ISLAND LAND FLD** (89D) 1 NE UTC-5(-4DT) N41°36.17' W82°41.08'

DETROIT

598 NOTAM FILE CLE

RWY 18-36: H2270X35 (ASPH) LIRL

RWY 18: Bldg. RWY 36: Trees.

RWY 09-27: H2203X50 (ASPH) LIRL

RWY 09: Trees. RWY 27: Tree.

**AIRPORT REMARKS:** Unattended. Rwy 18-36 CLOSED indef. Rwy 09-27 pavement poor—weathered with cracks. Ldg fee.

COMMUNICATIONS: CTAF 122.9

**KENT STATE UNIV** (1G3) 3 W UTC-5(-4DT) N41°09.08' W81°24.91'

DETROIT

1134 B S4 FUEL 100LL, JET A1+ TPA-1984(850) NOTAM FILE CLE

L-306

RWY 01-19: H4000X60 (ASPH) MIRL 0.4% up N

IAP

RWY 01: REIL. VASI(V4L)—GA 3.5° TCH 42'. Thld dspcd 49'. Trees.

RWY 19: REIL. VASI(V4L)—GA 3.0° TCH 35'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1130Z±-dusk, Sat-Sun 1300Z±-dusk. Self svc fuel avbl. Self svc fuel OTS indef. Ramp fee for multi-engine and turbine powered acft—waived with fuel purchase. Deer on and invof arpt. For noise abatement procedures ctc arpt manager on 330-672-1943. ACTIVATE MIRL Rwy 01-19; VASI and REIL Rwy 01 and Rwy 19—122.9. Rwy 01 and Rwy 19 REIL OTS indef.

COMMUNICATIONS: CTAF/DEP COM 122.725

① AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z±)

CLNC DEL 125.65

① CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z±)

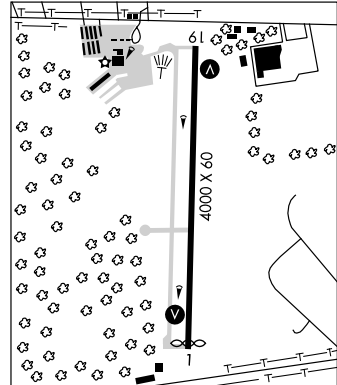
RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

AKRON (L) VOR/DME 114.4 ACO Chan 91 N41°06.47'

W81°12.09' 289° 10 NM to fld, 1194/4W.

AKRON NDB (MHW/LDM) 362 AK N41°04.19' W81°23.25' 353°

5.1 NM to fld. NOTAM FILE CLE.

**KENTON****HARDIN CO** (I95) 3 SW UTC-5(-4DT) N40°36.64' W83°38.62'

DETROIT

1024 B S4 FUEL 100LL, JET A1+ TPA-2024(1000) NOTAM FILE DAY

L-27E

RWY 04-22: H4201X75 (ASPH) S-19 MIRL 0.5% up SW

IAP

RWY 04: Fence. RWY 22: Road.

**AIRPORT REMARKS:** Attended Sat-Sun 1400-2000Z±, May-Oct Mon-Fri 1300-0100Z±, Nov-Apr Mon-Fri 1400-2300Z±. Birds on and invof arpt. ACTIVATE MIRL Rwy 04-22—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

INDIANAPOLIS CENTER APP/DEP CON 128.075

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 168° 21.3 NM to fld. 820/2W.

ALLEN CO (T) VOR 108.4 AOH N40°42.43' W83°58.09' 115° 15.9 NM to fld. NOTAM FILE DAY. VOR portion unusable 091°-109° byd 20 NM.

**KIRILA HELIPORT** (See BROOKFIELD)**KNOX CO** (See MOUNT VERNON)**KOONS** (See SALEM)**LAGRANGE****HARLAN AIRFIELD** (92D) 2 S UTC-5(-4DT) N41°12.17' W82°06.91'

DETROIT

843 TPA-1843(1000) NOTAM FILE CLE

RWY 09-27: 2670X95 (TURF)

RWY 09: P-line. RWY 27: Trees

RWY 18-36: 1410X95 (TURF)

RWY 18: Tree. RWY 36: Trees.

**AIRPORT REMARKS:** Attended irregularly. Arpt occasionally CLOSED for radio controlled model flying. Req blind call on 122.9 at arrival and departure as safety procedure. Rwy 36 has no line of sight with Rwy 09 and Rwy 27 ends.

Rwy 18-36 marked with white tires.

COMMUNICATIONS: CTAF 122.9



**LAKEFIELD** (See CELINA)**LAKELAND** N41°40.95' W81°22.74' NOTAM FILE CLE.

DETROIT

NDB (MHW) 263 LQL at Willoughby Lost Nation Muni. NDB unmonitored.

L-306

**LANCASTER****FAIRFIELD CO** (LHQ) 3 NW UTC-5(-4DT) N39°45.34' W82°39.43'

CINCINNATI

868 B S4 FUEL 100LL, JET A1 + NOTAM FILE LHQ

H-106, L-29A

RWY 10-28: H5004X75 (ASPH) S-25.5, D-38.5 MIRL

IAP

RWY 10: REIL. PAPI(P4L)—GA 3.0°. Trees.

RWY 28: REIL. PAPI(P4L)—GA 3.0°. Thld dspcd 279'. Road.

**AIRPORT REMARKS:** Attended 1300Z†-dark. Arpt unattended Christmas, New Years and Thanksgiving. Fuel available

24 hrs with credit card. Run up area N end Rwy 28 closed permanently. Rwy 28 calm wind preferred rwy. MIRL

Rwy 10-28 preset on low ints; to increase ints and ACTIVATE REILS Rwy 10 and Rwy 28—122.725. Rwy 28 PAPI operates 24 hours.

**WEATHER DATA SOURCES:** ASOS 118.375 (740) 681-1097.**COMMUNICATIONS:** CTAF/UNICOM 122.725

APPLETON RCO 122.1R 116.7T (DAYTON RADIO)

Ⓡ COLUMBUS APP/DEP CON 132.3 CLNC DEL 121.65

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.07' W82°35.30' 194° 23.9 NM to fld. 1360/6W.

HIWAS.

CASER NDB (LOM) 338 LH N39°44.93' W82°32.12' 280° 5.7 NM to fld. Unmonitored.

ILS 111.9 I-LHQ Rwy 28. LOM CASER NDB. LOC only. LOM unmonitored. LOC unmonitored.

**LANDSDOWNE** (See YOUNGSTOWN)**LAWRENCE CO AIRPARK** (See CHESAPEAKE-HUNTINGTON WVA)**LEBANON-WARREN CO** (I68) 3 NW UTC-5(-4DT) N39°27.73' W84°15.11'

CINCINNATI

898 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE DAY

L-27E

RWY 01-19: H4502X65 (ASPH) S-30, D-41 RWY MIRL (NSTD) 0.3% up N

IAP

RWY 01: REIL. PAPI(P4R). Thld dspcd 630'. P-line. Rgt tfc.

RWY 19: REIL. PAPI(P4L). Thld dspcd 410' (dalgt). Trees.

**AIRPORT REMARKS:** Attended 1230-0300Z†. PAEW adjacent rwy and twy

indef. NSTD MIRL Rwy 01-19, not located at correct place

adjacent to dspcd thld markings. Rwy 19 dspcd thld not lgtd. Rwy

01 dspcd thld at the 630' mark is not lgtd. The former dspcd thld

at 363' mark is lgtd for night ops. Rwy 19 PAPI OTS indef. Rwy 01

REIL OTS indef. ACTIVATE MIRL Rwy 01-19—123.075.

**WEATHER DATA SOURCES:** AWOS-3 120.55 (513) 934-5500.**COMMUNICATIONS:** CTAF/UNICOM 123.075

Ⓡ DAYTON APP CON 126.5 (091°-180°) 118.85 127.225

Ⓡ DAYTON DEP CON 126.5 (091°-180°)

DAYTON CLNC DEL 119.4 (937) 454-7282

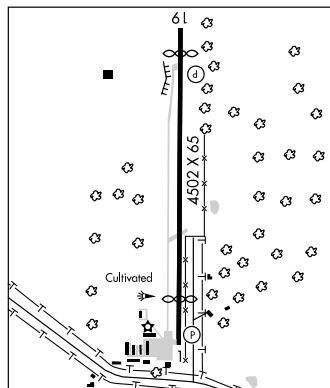
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FFO.

MIDWEST (T) VORW/DME 112.9 MXQ Chan 76 N39°25.78'

W83°48.07' 279° 21 NM to fld 1050/4W.

ONIDA NDB (LOM) 223 MW N39°34.69' W84°19.42' 159° 7.7

NM to fld. NOTAM FILE DAY. Unmonitored.





**LEIPSIC****RUHE'S** (R47) 3W UTC-5(-4DT) N41°06.19' W84°03.11'

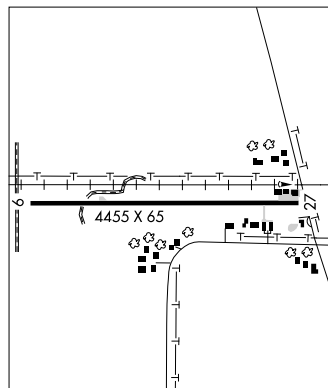
801 S4 NOTAM FILE CLE

**RWY 09-27:** H4455X65 (ASPH) LIRL (NSTD)**RWY 09:** Railroad. **RWY 27:** Antenna.

**AIRPORT REMARKS:** Attended dalgt hrs. Field primary for dusting/spraying ops. Most tkfs to W; lds E; no tfc pattern for agriculture planes. For LIRL Rwy 09-27 call 419-943-3352. Rwy 09-27 NSTD LIRL. Thld lgt'd with 360° green lgt's and Rwy lgt's S side offset 20'.

**COMMUNICATIONS:** CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE FDY.

**FINDLAY (L) VORTAC** 108.2 FDY Chan 19 N40°57.32'  
W83°45.36' 306° 16.1 NM to fld. 820/2W.

DETROIT  
L-28J**LIMA ALLEN CO** (AOH) 5 SE UTC-5(-4DT) N40°42.42' W84°01.60'

975 B S4 FUEL 100LL, JET A1 + OX 1 NOTAM FILE AOH

**RWY 09-27:** H5149X150 (ASPH) D-60 HIRL 0.5% up E.**RWY 09:** Thld displcd 138'. Tree.**RWY 27:** REIL. PAP(P4R)—GA 3.0° TCH 46'.**RWY 14-32:** 3994X150 (TURF-ASPH)**RWY 14:** Pole. **RWY 32:** Tree.

**AIRPORT REMARKS:** Attended Mon-Thr 1100-0100Z†, Fri 1100-2300Z†, Sat 1400-2000Z†, Sun 1600-2000Z†. Rwy 14-32 CLOSED winters. Rwy 14-32 first 600' Rwy 32 paved 150' wide. ACTIVATE HIRL Rwy 09-27 and REIL Rwy 27—CTAF.

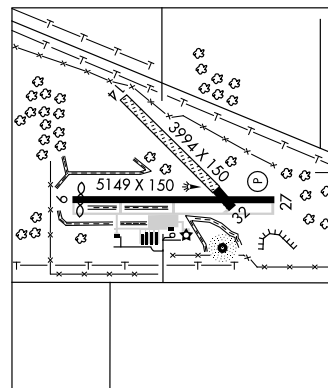
**WEATHER DATA SOURCES:** ASOS 108.4 AOH (419) 224-6098.**COMMUNICATIONS:** CTAF/UNICOM 122.7**ALLEN CO RCO** 122.1R 108.4T (DAYTON RADIO)**INDIANAPOLIS CENTER APP/DEP CON** 128.075**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.**FINDLAY (L) VORTAC** 108.2 FDY Chan 19 N40°57.32'

W83°45.36' 222° 19.3 NM to fld. 820/2W.

NOTAM FILE FDY.

**ALLEN CO (T) VOR** 108.4 AOH N40°42.43' W83°58.09' 274°  
2.7 NM to fld. ASOS.

VOR portion unusable 091°-109° byd 20 NM.

**NDB (MHW)** 362 LYL N40°42.27' W84°01.40' at fld. Unmonitored. SHUTDOWN.**ILS** 109.3 I-AOH Rwy 27. LOC unusable byd 25° left side of course. ILS unmonitored.DETROIT  
H-10G, L-27E  
IAP**LONDON** N39°55.89' W83°27.84' NOTAM FILE DAY.**NDB (MHW)** 263 UYF at Madison Co.CINCINNATI  
L-29A



**LONDON****MADISON CO** (UYF) 3N UTC-5(-4DT) N39°55.96' W83°27.72'

1082 B S4 FUEL 100LL, JET A1+ NOTAM FILE DAY

RWY 09-27: H4001X75 (ASPH) S-30, D-40 MIRL 0.8% up W

RWY 09: REIL. PAPI(P4L)-TCH 31'.

RWY 27: REIL. PAPI(P4L)-TCH 31'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2100Z, Sat-Sun

1400-2200Z. 24 hr self svc fuel after hrs. ACTIVATE MIRL Rwy

09-27 and PAPI and REIL Rws 09 and 27-CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ DAYTON APP CON 126.5 (091°-180°) 118.85 127.225

Ⓡ DAYTON DEP CON 126.5 (091°-180°)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FFO.

SPRINGFIELD (T) VORW/DME 113.2 SGH Chan 79 N39°50.19'

W83°50.70' 076° 18.6 NM to fld. 1047/4W.

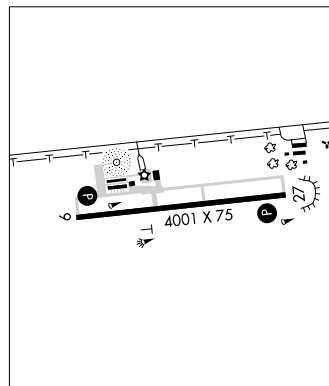
LONDON NDB (MHW) 263 UYF N39°55.89' W83°27.84' at fld.

NOTAM FILE DAY.

CINCINNATI

L-29A

IAP

**LORAIN CO RGNL** (See LORAIN/ELYRIA)**LORAIN (ELYRIA)****LORAIN CO RGNL** (LPR) 6 S UTC-5(-4DT) N41°20.66' W82°10.66'

793 B S4 FUEL 100LL, JET A TPA-1793(1000) NOTAM FILE LPR

RWY 07-25: H5002X100 (ASPH-GRVD) S-80, D-110, ST-175, DT-180 HIRL

RWY 07: MALSR. PAPI(P4L)-GA 3.0° TCH 54'.

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees. Rgt tfc.

**AIRPORT REMARKS:** Special Air Traffic Rules-Part 93, see Regulatory

Notices. Attended Mon-Fri 1200-0400Z, Sat-Sun

1200-0300Z. Birds; coyotes and deer on and in/ov arpt. Pilots

opr in Oberlin area req to avoid and remain well clear of Oberlin

College due to music conservatory. All tfc ops N of arpt as per FAR

Part 93, Subpart J. HIRL Rwy 07-25 preset low ints, to increase

ints and ACTIVATE MALSR Rwy 07-CTAF.

**WEATHER DATA SOURCES:** ASOS 121.425 (440) 323-7088.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ CLEVELAND APP/DEP CON 126.35 CLNC DEL 125.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48'

W82°09.72' 226° 1.1 NM to fld. 780/5W. HIWAS.

ILS 111.7 I-LQG Rwy 07.

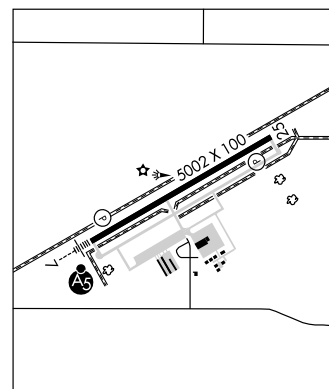
**COMM/NAV/WEATHER REMARKS:** For IFR clearance ctc Cleveland apch

control at 216-898-2040.

DETROIT

H-106, L-306

IAP

**LOST NATION** N41°41.06' W81°23.37'. NOTAM FILE CLE.

(T) VORW/DME 110.2 LNN Chan 39 at Willoughby Lost Nation Muni. 620/8W. Unmonitored.

VOR portion unusable 030°-094°; 135°-224°. DME portion unusable byd 20 NM.

DETROIT

L-306

**MADEIRA** N39°13.37' W84°21.32' NOTAM FILE LUK.

NDB (MHW) 379 MDE 206° 7.7 NM to Cincinnati Muni Arpt Lunken Fld. Unmonitored when twr clsd.

CINCINNATI

L-27E

**MADISON CO** (See LONDON)**MAD RIVER INC** (See TREMONT CITY)**MANNS** N40°45.97' W82°26.70' NOTAM FILE MFD.

NDB (MHW/LOM) 372 MF 321° 4.7 NM to Mansfield Lahm Rgnl.

DETROIT

L-29A



**MANSFIELD LAHM RGNL** (MFD) 3 N UTC-5(-4DT) N40°49.29' W82°31.00'  
 1297 B S4 FUEL 100LL, JET A Class IV, ARFF Index A NOTAM FILE MFD  
**RWY 14-32:** H9001X150 (ASPH-GRVD) S-150, D-185, ST-175, DT-300 HIRL  
**RWY 14:** PAPI(P4L)—GA 3.0° TCH 42'. Road. 0.9% up.  
**RWY 32:** MALSR. Trees.  
**RWY 05-23:** H6795X150 (ASPH-GRVD) S-90, D-96, ST-175, DT 150 HIRL  
**RWY 05:** REIL. PAPI(P4L)—GA 3.0° TCH 50.  
**RWY 23:** REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 05	14-32	4350
RWY 14	05-23	6100

**RUNWAY DECLARED DISTANCE INFORMATION**

**RWY 05:** TORA-6795 TODA-6795 ASDA-6795 LDA-6795  
**RWY 14:** TORA-9001 TODA-9001 ASDA-9001 LDA-9001  
**RWY 23:** TORA-6795 TODA-6795 ASDA-6795 LDA-6795  
**RWY 32:** TORA-9001 TODA-9001 ASDA-9001 LDA-9001

**AIRPORT REMARKS:** Attended 1200-0400Z†. Deer and birds and waterfowl on and in/ov arpt. Two hrs PPR for air carrier ops with more than 30 passenger seats call 419-522-2191. Acft on either end of Rwy 05-23 and Rwy 14-32 cannot be seen on the other end due to rwy grade. Acft larger than a "G1" or with a wing span greater than 80' (tip to tip) are restricted on Twys G/H/J/L/M/N and should use the main ramp area. When twr clsd ACTIVATE HIRL Rwy 05-23 and Rwy 14-32; MALSR Rwy 32; REIL Rwy 05 and 23—CTAF. Rwy 32 RVR avbl. Ldg fees on all commercial oprs invoiced on monthly basis; for other arrangements contact arpt manager on 419-522-2191.

**WEATHER DATA SOURCES:** ASOS (419) 522-1375. LAWRS.

**COMMUNICATIONS:** CTAF 119.8 ATIS 125.3 UNICOM 122.95

RCO 122.1R 108.8T (CLEVELAND RADIO) RCO 122.6 (CLEVELAND RADIO)  
 (R) APP/DEP CON 124.2 127.35 (1100-0400Z†) (R) CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z†)  
 TOWER 119.8 (1100-0400Z†) GND CON 121.8

**AIRSPACE:** CLASS D svc effective 1100-0400Z† other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MFD.

(L) VORTAC 108.8 MFD Chan 25 N40°52.12' W82°35.46' 133° 4.4 NM to fld. 1210/3W.

**MANN'S NDB (MHW/LOM)** 372 MF N40°45.97' W82°26.70' 321° 4.7 NM to fld

**ILS 110.5 I-MFD** Rwy 32. Class IA. LOM MANN'S NDB. Unmonitored when twr clsd. LOC unusable from 0.3 NM to thld.

**ASR (1100-0400Z†)**

.....  
**HELIPAD H2:** H24X24 (ASPH)

**HELIPORT REMARKS:** Helipad H2 perimeter lgts.

## MANTUA MILLS

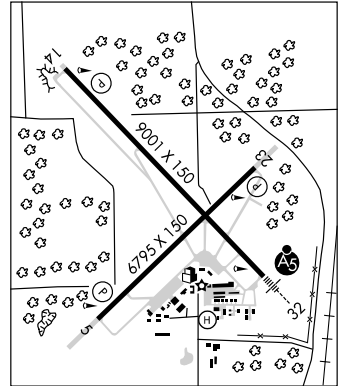
(7E3) 3 SW UTC-5(-4DT) N41°14.30' W81°15.23'  
 1140 NOTAM FILE CLE  
**RWY 03-21:** 2640X60 (TURF)  
**RWY 03:** Tree. **RWY 21:** P-lines.  
**AIRPORT REMARKS:** Unattended.  
**COMMUNICATIONS:** CTAF 122.9

**MARATHON** N41°00.89' W83°39.86'. NOTAM FILE FDY.

(T) VORW 114.9 MAH at Findlay. Unmonitored.

VOR unusable  
 340°-067°  
 085°-135°  
 079°-130°

068°-078° byd 12 NM  
 079°-130° byd 12 NM  
 131°-339° byd 12 NM



DETROIT

H-106, L-29A

IAP, AD

DETROIT

L-28J



**MARION MUNI** (MNN) 3 NE UTC-5(-4DT) N40°36.98' W83°03.81' **DETROIT**  
 993 B S4 **FUEL** 80, 100LL, JET A1 + TPA-1793(800) NOTAM FILE MNN **H-106, L-29A**  
**RWY 07-25:** H5000X100 (ASPH-GRVD) S-70, D-95, ST-121, DT-150 MIRL **IAP**  
**RWY 07:** REIL. PAPI(P4L)—GA 3.0° TCH 24'. Road. **RWY 25:** REIL. PAPI(P4L)—GA 3.0° TCH 31'. Trees.  
**RWY 13-31:** H3498X100 (ASPH-GRVD) S-56, D-68, ST-86, DT-105 MIRL  
**RWY 13:** REIL. PAPI(P2L)—GA 3.0° TCH 21'. Trees. **RWY 31:** REIL. PAPI(P2L)—GA 3.0° TCH 21'. Acft.  
**AIRPORT REMARKS:** Attended 1300-2200Z†. Glider activity on and in/ov arpt. Gliders and towplanes use rgt t/c pattern for Rwy 07 and Rwy 31. Transient acft follow ramp signs to main ramp. Twy D cannot be used to taxi between rwy and ramp area by acft with wingspan greater than 35'. After 0500Z† ACTIVATE MIRL Rwy 07-25 and Rwy 13-31; REIL Rwy 07; Rwy 25; Rwy 13 and Rwy 31—CTAF.  
**WEATHER DATA SOURCES:** ASOS 119.975 (740) 383-3400. SAWRS.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 (R) **MANSFIELD APP/DEP CON** 124.2 (1100-0400Z†) **CLNC DEL** 126.8  
**CLEVELAND CENTER APP/DEP CON** 135.1 (0400-1100Z†)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE MFD.  
**MANSFIELD (L) VORTAC** 108.8 MFD Chan 25 N40°52.12' W82°35.46' 238° 26.3 NM to fld. 1210/3W.  
**BUCKEYE (T) VORW** 109.8 BUD N40°37.00' W83°03.83' at fld. NOTAM FILE MNN.  
**NDB (MHW)** 201 MNN N40°37.03' W83°04.20' at fld. Unusable byd 15 NM. NOTAM FILE MNN. SHUTDOWN.  
**ILS/DME** 110.35 I-AEF Chan 40Y Rwy 25. LOC only.

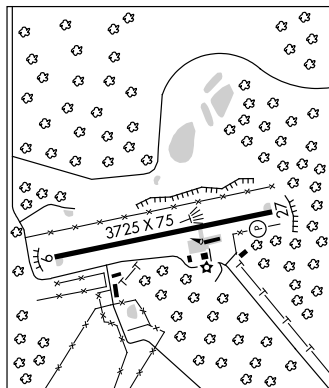
## MARYSVILLE

**UNION CO** (MRT) 1 SE UTC-5(-4DT) N40°13.48' W83°21.10' **DETROIT**  
 1021 B S4 **FUEL** 100LL, JET A1+ OX 1, 2, 3, 4 NOTAM FILE DAY **L-29A**  
**RWY 09-27:** H4218X75 (ASPH) S-17 MIRL 0.6% up W. **IAP**  
**RWY 09:** REIL. PAPI(P4L)—GA 4.0° TCH 20'. Tree.  
**RWY 27:** REIL. PAPI(P4L)—GA 4.0° TCH 42'. Thld dsplcd 124'. Railroad.  
**AIRPORT REMARKS:** Attended Nov-Apr 1300-2300Z†, May-Oct 1300-0000Z†. For svc after hrs call 740-815-5455.  
 24 hr credit card svc avbl fuel. Deer and birds on and in/ov arpt. ACTIVATE MIRL, REIL, PAPI Rwy 09-27—CTAF.  
 Ramp fee for commercial acft.  
**WEATHER DATA SOURCES:** AWOS-3 119.275 (937)-644-2967.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 (R) **COLUMBUS APP/DEP CON** 120.2  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.  
**ROSEWOOD (H) VORTAC** 117.5 ROD Chan 122 N40°17.27' W84°02.59' 102° 32 NM to fld. 1080/5W.  
**COMM/NAV/WEATHER REMARKS:** AWOS-3 unusable byd 6 NM.

**MAYFIELD** (See AKRON)

## MCARTHUR

**VINTON CO** (22I) 5 NE UTC-5(-4DT) N39°19.69' W82°26.51' **CINCINNATI**  
 958 B **FUEL** 100LL NOTAM FILE DAY **L-29A**  
**RWY 09-27:** H3725X75 (ASPH) MIRL  
**RWY 09:** Trees. **RWY 27:** PAPI(2PL). Trees.  
**AIRPORT REMARKS:** Attended irregularly. For fuel call 740-357-0268 or 740-596-0002. Occasional deer and geese on and in/ov arpt.  
 ACTIVATE MIRL Rwy 09-27—122.9.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE EKN.  
**HENDERSON (H) VORTAC** 115.9 HNN Chan 106 N38°45.25' W82°01.57' 334° 39.5 NM to fld. 880/3W.





**McCONNELLSVILLE****MORGAN CO** (I71) 3 E UTC-5(-4DT) N39°39.26' W81°48.19'CINCINNATI  
L-29B

1000 B FUEL 100LL TPA-1800(800) NOTAM FILE CLE

RWY 12-30: H3500X65 (ASPH) S-12 MIRL

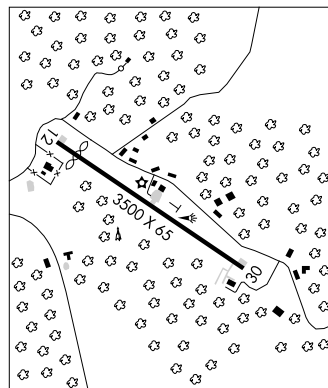
RWY 12: Thld dsplcd 350'. Road.

RWY 30: REIL. Tree.

**AIRPORT REMARKS:** Unattended. For fuel use phone in Administration Building and refer to list above phone. Rwy 12-30 sfc has loose aggregate, large cracks with grass growing through them. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 12-30 and REIL Rwy 30—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE ZZW.

ZANESVILLE (L) VOR/DME 111.4 ZZW Chan 51 N39°56.45'  
W81°53.56' 172° 17.7 NM to fld. 900/6W.

**MEDINA MUNI** (1G5) 4 E UTC-5(-4DT) N41°07.89' W81°45.90'DETROIT  
L-30G  
IAP

1190 B S4 FUEL 100LL NOTAM FILE CLE

RWY 09-27: H3556X75 (ASPH) S-30 MIRL 0.4% up E

RWY 09: PAPI (P4L). Trees.

RWY 27: REIL. PAPI (P4L)—GA 3.5° TCH 30'.

RWY 01-19: H2867X60 (ASPH) S-25 MIRL 0.7% up N

RWY 01: PAPI (P4L). P-line.

RWY 19: PAPI (P4L). Thld dsplcd 737'. Trees.

**AIRPORT REMARKS:** Attended 1300Z±-dusk. Deer on and invof arpt. PAEW twys. Rwy 09-27 has severe cracking with much foreign object damage potential. Rwy 09 PAPI OTS indef. MIRL Rwy 09-27, MIRL Rwy 01-19, PAPI Rwys 09, 27, 01 and 19 opr dusk-0300Z±; after 0300Z± ACTIVATE—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

® CLEVELAND APP/DEP CON 125.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48' W82°09.72' 132° 22.5 NM to fld. 780/5W. HIWAS.

**METCALF FLD** (See TOLEDO)**MIAMI UNIVERSITY** (See OXFORD)**MIDDLE BASS-EAST POINT** (See MIDDLE BASS ISLAND)**MIDDLE BASS ISLAND****MIDDLE BASS-EAST POINT** (3W9) 1 NE UTC-5(-4DT) N41°41.67' W82°47.79'

DETROIT

582 NOTAM FILE CLE

RWY 09-27: 2085X67 (TURF)

RWY 09: Berm.

RWY 27: Trees. Rgt tfc.

**AIRPORT REMARKS:** Attended May-Oct irregularly, unattended Nov-Apr. Rwy soft and wet in spring. Numerous trees and buildings in close proximity of rwy. Be alert: Expect significant windshear and turbulence on apch and departure when winds exceed 10 Kt speed.

**COMMUNICATIONS:** CTAF 122.9**MIDDLE BASS ISLAND** (3T7) 1 NE UTC-5(-4DT) N41°41.11' W82°48.29'

DETROIT

580 TPA-1580 (1000)

RWY 10-28: H1852X75 (ASPH)

RWY 10: PAPI(P4L). Thld dsplcd 52'. Building. Rgt tfc.

RWY 28: PAPI(P4L). Ground.

**AIRPORT REMARKS:** Unattended. All tfc patterns remain S of arpt.**COMMUNICATIONS:** CTAF/UNICOM 122.8



**MIDDLEFIELD****GEAUGA CO** (7G8) 1 SE UTC-5(-4DT) N41°26.98' W81°03.78'**DETROIT**

1174 B FUEL 100LL TPA-2199(1025) NOTAM FILE CLE

**L-306****RWY 11-29:** H3500X65 (ASPH) S-18.5 HIRL 0.5% up W.**IAP****RWY 11:** REIL. TRCV (TRIR). Thld dspcd 180'. Tank. **RWY 29:** REIL. TRCV (TRIL). Trees.**AIRPORT REMARKS:** Unattended. Use care when taxiing on ramp, loose gravel and rough areas. ACTIVATE HIRL Rwy 11-29 and REIL Rwy 11 and Rwy 29—CTAF. Rwy 11 and Rwy 29 TRCV OTS indef. Ultralight ops conduct a close-in 500' AGL rgt hand pattern during dalgt hrs. Parallel twy clsd permanently, E of T-hangers.**COMMUNICATIONS:** CTAF/UNICOM 123.0**CHARDON RCO** 122.1R 112.7T (CLEVELAND RADIO)® **CLEVELAND APP/DEP CON** 125.35**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.**CHARDON (H) VOR/DME** 112.7 CXR Chan 74 N41°31.02' W81°09.79' 137° 6.1 NM to fld. 1310/5W.**COMM/NAV/WEATHER REMARKS:** For IFR clearance ctc Cleveland apch control at 216-898-2040.**MIDDLETOWN RGNL/HOOK FLD** (MW0) 2 N UTC-5(-4DT) N39°31.91' W84°23.79'**CINCINNATI**

650 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE DAY

**H-106, L-27E****RWY 05-23:** H6100X100 (ASPH) S-66, D-78, DT-140 MIRL**IAP****RWY 05:** REIL. PAPI(P4L). Trees.**RWY 23:** REIL. PAPI(P4L). Thld dspcd 299'. Tree. Rgt tfc.**RWY 08-26:** 3040X297 (TURF)**RWY 08:** Thld dspcd 951'. Trees.**RWY 26:** Trees. Rgt tfc.**AIRPORT REMARKS:** Attended 1300-2200Z+. CAUTION: Ultralights enter/exit pattern at Rwy 08 to N lower than regular tfc pattern. Ultralights do not fly S of Rwy 26. Rwy 08-26 marked with white and black cones. ACTIVATE MIRL Rwy 05-23—CTAF.**WEATHER DATA SOURCES:** AWOS-3 120.025 (513) 422-3505.**COMMUNICATIONS:** CTAF/UNICOM 123.0® **DAYTON APP CON** 126.5 (091°-180°) 118.85 127.225 ® **DAYTON DEP CON** 126.5 (091°-180°)**DAYTON CLNC DEL** 119.4 (937) 454-7282**RADIO AIDS TO NAVIGATION:** NOTAM FILE FFO.**RICHMOND (L) VORTAC** 110.6 RID Chan 43 N39°45.30' W84°50.33' 126° 24.5 NM to fld. 1135/3W.**HOOK FLD NDB (MHW)** 239 HKF N39°29.93' W84°26.85' 054° 3.1 NM to fld. NOTAM FILE DAY. NDB OTS indef.**ONIDA NDB (LOM)** 223 MW N39°34.70' W84°19.41' 235°4.4 NM to fld. Unmonitored.**ILS 111.1** I-MW0 Rwy 23 LOM ONIDA NDB. LOC only.**MIDWEST** N39°25.78' W83°48.07' NOTAM FILE ILN.**CINCINNATI**(T) **VORW/DME** 112.9 MXQ Chan 76 at Airborne Airpark. 1050/4W.**H-106, L-27E**

Unmonitored when twr clsd.

**VOR unusable** 051°-224°, 170°-275°.**MILLER** (See ALLIANCE)**MILLER FARM LANDING STRIP** (See BALTIMORE)



**MILLERSBURG****HOLMES CO** (10G) 2 SW UTC-5(-4DT) N40°32.23' W81°57.26'

DETROIT

1218 B S4 FUEL 100LL, JET A OX 3 NOTAM FILE CLE

L-29B

RWY 09-27: H3498X65 (ASPH) S-14, D-25 MIRL 1.0% up W.

IAP

RWY 09: REIL. Pole. RWY 27: REIL. VASI(V2L). Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-0100Z†, Sat

1300-2300Z†, Sun 1730-2300Z†. Deer on and invof arpt.

ACTIVATE MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27-123.4.

WEATHER DATA SOURCES: AWOS-3 128.325 (330) 674-6279.

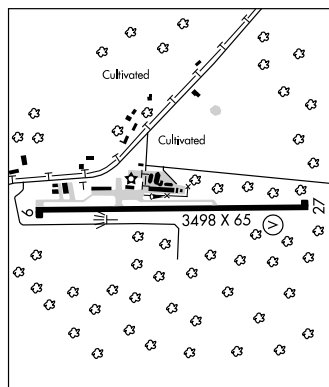
COMMUNICATIONS: CTAF/UNICOM 123.0

Ⓡ INDIANAPOLIS CENTER APP/DEP CON 124.45

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

TIVERTON (L) VOR/DME 116.5 TWT Chan 112 N40°27.48'

W82°07.61' 062° 9.2 NM to fld. 1340/3W.

**MILLS** (See MANTUA)**MONROE CO** (See WOODSFIELD)**MORAIN AIR PARK** (See DAYTON)**MORGAN CO** (See McCONNELLSVILLE)**MORROW CO** (See MOUNT GILEAD)**MOUNT GILEAD****MORROW CO** (4I9) 2 SW UTC-5(-4DT) N40°31.47' W82°51.00'

DETROIT

1085 B S4 NOTAM FILE CLE

L-29A

RWY 10-28: H3497X65 (ASPH) S-3 MIRL 0.3% up E

IAP

RWY 10: Trees. RWY 28: SAVASI(S2L)-GA 4.0° TCH 26'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z†. Rwy 28 SAVASI OTS indef. ACTIVATE MIRL Rwy 10-28-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ MANSFIELD APP/DEP CON 124.2 (1100-0400Z†)

Ⓡ CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12' W82°35.46' 213° 23.8 NM to fld. 1210/3W.

BUCKEYE (T) VORW 109.8 BUD N40°37.00' W83°03.81' 124° 11.2 NM to fld. NOTAM FILE MNN.

**MOUNT VERNON****KNOX CO** (4I3) 4 SW UTC-5(-4DT) N40°19.74' W82°31.57'

DETROIT

1191 B S4 FUEL 80, 100LL, JET A1+ TPA-1999(808) NOTAM FILE CLE

H-106, L-29A

RWY 10-28: H5500X100 (ASPH) S-18, D-23 MIRL

IAP

RWY 10: REIL. PAPI(P4L). Tree. RWY 28: REIL. PAPI(P4L).

AIRPORT REMARKS: Attended Nov-Mar Mon-Fri 1200-2300Z†, Apr-Oct Mon-Fri 1200-0000Z†, Sat 1400-2200Z†,

Sun 1500-2200Z†. For attendance other times call 24 hrs in advance 740-694-4687. Deer on and invof arpt.

ACTIVATE MIRL Rwy 10-28-CTAF. Rwy 10 and Rwy 28 PAPI's opr continuously.

WEATHER DATA SOURCES: AWOS-3 126.05 (740) 397-6297.

COMMUNICATIONS: CTAF/UNICOM 123.05

APPLETON RCO 122.1R 116.7T (DAYTON RADIO)

Ⓡ COLUMBUS APP/DEP CON 120.2 CLNC DEL 119.45

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

TIVERTON (L) VOR/DME 116.5 TWT Chan 112 N40°27.48' W82°07.61' 250° 19.9 NM to fld. 1340/3W.



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**WYMKOOP** (6G4) 2 S UTC-5(-4DT) N40°21.90' W82°29.74' **DETROIT**  
 1041 B S2 FUEL 100LL NOTAM FILE CLE  
**RWY 06-24:** 3355X90 (TURF) LIRL (NSTD)  
**RWY 06:** Thld dsplcd 43'. Trees. **RWY 24:** Thld dsplcd 400'. Road.  
**RWY 09-27:** 2600X65 (TURF-DIRT)  
**RWY 09:** Brush. **RWY 27:** Road.  
**AIRPORT REMARKS:** Attended Apr-Sep Mon-Sat 1300-2300Z†, Oct-Mar Mon-Sat 1300-2100Z†. Deer on and in/ov arpt. For rotating bcn call 740-392-9125. Rwy 06-24 NSTD LIRL; one green thld lgt each side of thld; dsplcd thlds not lgt'd; 2617' of rwy lgt'd. NSTD LIRL ops dusk-dawn Apr-Oct. Rwy 06-24 edges and dsplcd thlds marked with white lgt fixtures with small white cones attached.  
**COMMUNICATIONS:** CTAF 122.9

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**MOUNT VICTORY**

**ELLIOTTS LANDING** (074) 1 SE UTC-5(-4DT) N40°31.48' W83°30.70' **DETROIT**  
 1045 NOTAM FILE DAY  
**RWY 15-33:** 2750X110 (TURF)  
**RWY 15:** Trees. **RWY 33:** P-line.  
**AIRPORT REMARKS:** Unattended. Rwy 15-33 marked with tires on each end.  
**COMMUNICATIONS:** CTAF 122.9.

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**NAPOLEON**

**HENRY CO** (7W5) 3 E UTC-5(-4DT) N41°22.46' W84°04.08' **DETROIT**  
 683 B S2 FUEL 100LL, JET A NOTAM FILE CLE **L-28J**  
**RWY 10-28:** H3956X65 (ASPH) MIRL **IAP**  
**RWY 10:** SAVASI(S2L). Road. **RWY 28:** REIL. SAVASI(S2L). Trees.  
**AIRPORT REMARKS:** Attended Apr-Sep 1300Z†-dusk, Oct-Mar, Mon-Sat 1300-2230Z†. Rwy 10 and Rwy 28 VASI OTS indef. Rwy 28 REIL OTS indef. ACTIVATE MIRL Rwy 10-28; REIL Rwy 28; SAVASI Rwy 10 and Rwy 28-CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 123.0  
 Ⓡ **TOLEDO APP/DEP CON** 134.35  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.  
**WATERVILLE (L) VOR/DME** 113.1 VVW Chan 78 N41°27.09' W83°38.32' 259° 19.9 NM to fld. 660/2W.

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**NEIL ARMSTRONG** (See WAPAKONETA)

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**NEWARK** N40°01.56' W82°27.81' NOTAM FILE DAY. **DETROIT**  
**NDB (MHW)** 524 HEH at Newark-Heath. **L-29A**

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**NEWARK-HEATH** (VTA) 3 SW UTC-5(-4DT) N40°01.48' W82°27.71' **DETROIT**  
 884 B S4 FUEL 100LL, JET A1+ OX 1, 2 TPA-1900(1016) NOTAM FILE VTA **L-29A**  
**RWY 09-27:** H4649X75 (ASPH) S-30 LIRL 0.3% up W **IAP**  
**RWY 09:** REIL. PAPI(P4L)—GA 3.25° TCH 27'. Thld dsplcd 455'. Road.  
**RWY 27:** REIL. PAPI(P4R)—GA 3.25° TCH 20'. Fence.  
**AIRPORT REMARKS:** Attended Apr-Oct 1230-0030Z†, Nov-Mar 1230†-dark. Fuel avbl 1230Z†-dark. Deer occasionally on or near rwy. Rwy 09 and 27 REILS OTS indef. MIRL Rwy 09-27 and REIL Rwy 09 and 27 operates low intensity continuously to increase intensity-123.3.  
**WEATHER DATA SOURCES:** ASOS 121.125 (740) 522-1066.  
**COMMUNICATIONS:** CTAF/UNICOM 122.7  
**APPLETON RCO** 122.1R 116.7T (DAYTON RADIO)  
 Ⓡ **COLUMBUS APP/DEP CON** 120.2 **CLNC DEL** 124.85  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.  
**APPLETON (H) VORTAC** 116.7 APE Chan 114 N40°09.06' W82°35.30' 148° 9.6 NM to fld. 1350/6W.  
**HIWAS.**  
**NDB (MHW)** 524 HEH N40°01.56' W82°27.81' at fld.  
**ILS** 110.9 RXK Rwy 09. LOC only.

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**NEWCOMERSTOWN** N40°13.75' W81°28.59' NOTAM FILE CLE. **DETROIT**  
**(L) VOR/DME** 111.8 CTW Chan 55 017° 14.7 NM to Harry Clever Fld. 1180/7W. **HIWAS.** **H-10G, L-29B**  
 Unusable 015°-030°; 090°-100° byd 30 NM; 051°-066°; 011°-120° byd 30 NM blo 3300'.  
**RCO** 122.1R 111.8T (CLEVELAND RADIO)

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**NEW LEXINGTON****PERRY CO** (186) 2 S UTC-5(-4DT) N39°41.50' W82°11.87'

CINCINNATI

1051 B S2 FUEL 100LL NOTAM FILE CLE

L-29B

RWY 08-26: H3498X75 (ASPH) MIRL 0.3% up SW

IAP

RWY 08: Fence. RWY 26: REIL. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2100Z†. For fuel after hrs call 740-605-1966. For after hrs call ahead for svc 740-343-0933. Rwy 08-26 has 3" to 4" wide cracks at various locations. Rwy 26 REIL OTS indef.

ACTIVATE MIRL 08-26 and REIL Rwy 26-122.8. Deer and turkey on and invof arpt.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ INDIANAPOLIS CENTER APP/DEP CON 124.45

RADIO AIDS TO NAVIGATION: NOTAM FILE ZZV.

ZANESVILLE (L) VOR/DME 111.4 ZZV Chan 51 N39°56.45' W81°53.56' 229° 20.6 NM to fld. 900/6W.

**NEW PHILADELPHIA****HARRY CLEVER FLD** (PHD) 3 SE UTC-5(-4DT) N40°28.21' W81°25.20'

DETROIT

894 B S4 FUEL 100LL, JET A+ NOTAM FILE PHD

L-29B

RWY 14-32: H3951X100 (ASPH) S-52.5, D-67.5, DT-140 MIRL

IAP

RWY 14: REIL. PAPI(P4R)—GA 4.0° TCH 30'. Thld displcd 330'. Trees.

RWY 32: REIL. PAPI(P4L)—GA 4.0° TCH 54'. Road.

RWY 11-29: 1907X70 (TURF)

RWY 11: Trees.

RWY 29: Trees.

**AIRPORT REMARKS:** Attended Apr-Sep 1300-0100Z†, Oct-Mar 1300-2200Z†. Two 919' unlighted twrs 180° NE of Rwy 14-32. ACTIVATE MIRL Rwy 14-32—123.3.

WEATHER DATA SOURCES: ASOS 121.425 (330) 339-1125.

COMMUNICATIONS: CTAF/UNICOM 122.8

BRIGGS RCO 122.1R 112.4T (CLEVELAND RADIO)

Ⓡ AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z†)

Ⓡ CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

BRIGGS (L) VOR/DME 112.4 BSV Chan 71 N40°44.44' W81°25.93' 182° 16.2 NM to fld. 1230/4W.

NEWCOMERSTOWN (L) VOR/DME 111.8 CTW Chan 55 N40°13.75' W81°28.59' 017° 14.7 NM to fld.

1180/7W. HIWAS.

**NEWTON FALLS****BRACEVILLE** (41N) 2 N UTC-5(-4DT) N41°12.67' W80°58.16'

DETROIT

900 NOTAM FILE CLE

L-30G

RWY 01-19: H3000X30 (ASPH)

RWY 01: Thld displcd 55'. Bldg. RWY 19: Trees.

**AIRPORT REMARKS:** Attended irregularly.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

AKRON (L) VOR/DME 114.4 ACO Chan 91 N41°06.48' W81°12.09' 63° 12.2 NM to fld. 1200/4W.

**NOBLE CO** (See CALDWELL)**NORTH BASS ISLAND** (3X5) Ø NW UTC-5(-4DT) N41°43.08' W82°49.27'

DETROIT

594 NOTAM FILE CLE

RWY 08-26: 1900X150 (TURF)

RWY 01-19: H1804X60 (ASPH)

RWY 01: Tree. RWY 19: Trees. Rgt tfc.

**AIRPORT REMARKS:** Unattended. Rwy 08-26 CLOSED indef. No touch and go landings and no student training. No ops dusk-dawn.

COMMUNICATIONS: CTAF/UNICOM 122.8



**NORWALK-HURON CO** (5A1) 3 E UTC-5(-4DT) N41°14.69' W82°33.07'

852 B FUEL 100LL, JET A NOTAM FILE CLE

RWY 10-28: H4210X75 (ASPH) MIRL 0.4% up W

RWY 10: Thld dsplcd 240'. Trees.

RWY 28: Thld dsplcd 668'. Road.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2200Z†, Sun 1800-2300Z†. ACTIVATE MIRL Rwy 10-28—CTAF. Drag strip on E end of rwy.

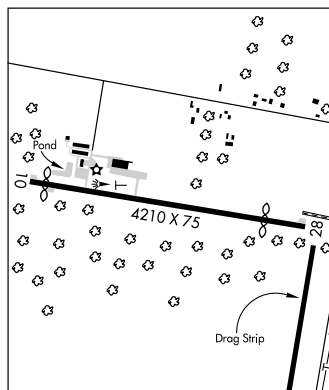
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ MANSFIELD APP/DEP CON 124.2 (1100-0400Z†)

Ⓡ CLEVELAND CENTER APP/DEP CON 127.9. (0400-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

SANDUSKY (L) VOR/DME 109.2 SKY Chan 29 N41°26.07' W82°39.29' 162° 12.3 NM to fld. 580/4W.



DETROIT

L-30F

IAP

**OHIO DUSTING CO INC** (See PANDORA)

**OHIO UNIVERSITY SNYDER FLD** (See ATHENS-ALBANY)

**OHIO STATE UNIVERSITY** (See COLUMBUS)

**OLD PORTAGE HELIPORT** (See AKRON)

**ONIDA** N39°34.70' W84°19.41' NOTAM FILE MGY.

NDB (LOM) 223 MW 234° 4.4 NM to Middletown Rgnl/Hook Fld. Unmonitored.

CINCINNATI

## OTTAWA

**PUTNAM CO** (OWX) 3 NE UTC-5(-4DT) N41°02.14' W83°58.92'

764 B S2 FUEL 100LL, JET A NOTAM FILE CLE

RWY 09-27: H4427X65 (ASPH) HIRL

RWY 09: REIL. Road. RWY 27: REIL. PAPI(P2L). P-line.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2200Z†. For svcs after hrs call 419-456-3410. Parachute Jumping. Extensive glider ops. Intensive agricultural ops and crop dusting. PAEW invof ramp indef. Windsock OTS indef. Rwy 09 REIL OTS indef. ACTIVATE HIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 120.525 (419) 523-4151.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ TOLEDO APP/DEP CON 120.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 297° 11.3 NM to fld. 820/2W.

DETROIT

L-28J

IAP

**OXFORD** N39°30.45' W84°46.84' NOTAM FILE DAY.

NDB (MHW) 282 OXD at Miami University. NDB unmonitored.

CINCINNATI

L-27E

## OXFORD

**MIAMI UNIVERSITY** (OXD) 2 W UTC-5(-4DT) N39°30.14' W84°47.06'

1041 B FUEL 100LL, JET A1+ NOTAM FILE DAY

RWY 05-23: H4011X70 (ASPH-GRVD) S-34, D-50 LIRL (NSTD)

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 26'. Thld dsplcd 270'. Road.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1200-2300Z†, Sat-Sun 1400-2200Z†, holidays irregularly. Rwy 05 NSTD dsplcd thld lgts 190' from thld. PAEW 40' N of Rwy 05-23. NSTD MIRL Rwy 05-23 preset on low ints dusk-0200Z†; to increase ints and ACTIVATE REIL Rwy 05 and Rwy 23-122.9; after 0200Z† ACTIVATE NSTD MIRL Rwy 05-23 and REIL Rwy 05 and Rwy 23-122.9.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CINCINNATI APP/DEP CON 121.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE HUF.

RICHMOND (L) VORTAC 110.6 RID Chan 43 N39°45.30' W84°50.33' 173° 15.4 NM to fld. 1135/3W.

OXFORD NDB (MHW) 282 OXD N39°30.45' W84°46.84' at fld. NOTAM FILE DAY. NDB unmonitored.

CINCINNATI

L-27E

IAP



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**PACKER** (See RADNOR)
 

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**PAINESVILLE**
**CONCORD AIRPARK** (2G1) 3 SE UTC-5(-4DT) N41°40.02' W81°11.83'

DETROIT

999 FUEL 100LL NOTAM FILE CLE

L-30G

RWY 02-20: H2181X38 (ASPH) S-12.5 LIRL 1.2% up SW.

IAP

RWY 02: Trees. RWY 20: Brush.

AIRPORT REMARKS: Attended irregularly. Birds on and invof arpt. For local traffic only, for rwy lgts call 440-352-3228.

Rwy 02-20 numbers small.

COMMUNICATIONS: CTAF/UNICOM 122.8

CHARDON RCO 122.1R 112.7T (CLEVELAND RADIO)

Ⓡ CLEVELAND APP/DEP CON 125.35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

CHARDON (H) VOR/DME 112.7 CXR Chan 74 N41°31.02' W81°09.79' 355° 9.1 NM to fld. 1310/5W.

COMM/NAV/WEATHER REMARKS: For IFR clearance ctc Cleveland apch control at 216-898-2040.

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**PANDORA**
**OHIO DUSTING CO INC** (6C2) 1 NW UTC-5(-4DT) N40°57.15' W83°58.93'

DETROIT

765 S2 FUEL 100LL NOTAM FILE CLE

RWY 09-27: 3112X150 (TURF)

RWY 09: Thld dsplcd 720'. Trees. RWY 27: Thld dsplcd 490'. P-line.

AIRPORT REMARKS: Attended continuously. Rwy 27 p-line marked with orange balls. Rwy 09 and Rwy 27 dsplcd thld marked with reflective panels.

COMMUNICATIONS: CTAF 122.9

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**PARR** (See ZANESVILLE)
 

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**PARSONS** (See CARROLLTON)
 

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**PATTERSON** N39°49.14' W84°03.33' NOTAM FILE FFO.

CINCINNATI

(T) TACAN Chan 99 FFO (115.2) at Wright Patterson AFB. 804/4W.

L-27E

TACAN azimuth unusable:

295°-360° byd 10 NM blo 5,000'.

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**PAULDING AIRPORT INC** (2H8) 2 NE UTC-5(-4DT) N41°10.09' W84°33.41'

DETROIT

721 S4 OX 4 TPA-1500(779) NOTAM FILE CLE

RWY 18-36: 2861X80 (TURF) LIRL (NSTD)

RWY 36: Building.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z±. Arpt CLOSED indef. ACTIVATE LIRL Rwy 18-36-122.9. Rwy 18-36 NSTD LIRL; thld lgts incorrect color.

COMMUNICATIONS: CTAF 122.9

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**PERRY CO** (See NEW LEXINGTON)
 

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**PHILLIPSBURG** (3I7) 0 N UTC-5(-4DT) N39°54.80' W84°24.03'

CINCINNATI

1031 B S4 FUEL 100LL NOTAM FILE DAY

L-27E

RWY 03-21: H3000X40 (ASPH) LIRL

IAP

RWY 03: REIL. Thld dsplcd 130'. Tree.

RWY 21: REIL. Trees.

AIRPORT REMARKS: Attended 1400-2300Z±. Arpt CLOSED to helicopter training. Do not fly over school 2100' S of arpt in line with rwy. Rwy 03-21 2416' lgtd between dsplcd thlds only.

COMMUNICATIONS: CTAF/UNICOM 122.7

Ⓡ DAYTON APP CON 134.45 (181°-359°) Ⓡ DAYTON DEP CON 134.45 (181°-359°) 118.0

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

DAYTON (L) VOR/DME 114.5 DQN Chan 92 N40°00.99' W84°23.81' 183° 6.2 NM to fld. 990/1W. HIWAS.

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**PICKAWAY CO MEM** (See CIRCLEVILLE)
 

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**PICKL** N39°52.86' W82°50.17'. NOTAM FILE LCK.

CINCINNATI

NDB (LDM) 376 LC 231° 5.9 NM to Rickenbacker Intl.

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**PIKE CO** (See WAVERLY)
 

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**PIQUA AIRPORT—HARTZELL FLD** (I17) 3 NW UTC−5(−4DT) N40°09.88' W84°18.51' **DETROIT**  
 994 B FUEL 100LL, JET A1+ NOTAM FILE DAY **L-27E**  
**RWY 08-26:** H3997X75 (ASPH) S-30, D-36 MIRL **IAP**  
**RWY 08:** REIL. Tree. **RWY 26:** REIL. Tree.  
**AIRPORT REMARKS:** Attended 1300-2200Z+. Fuel avbl 24 hrs—credit card. Propeller repairs avbl. Aerobatic box lctd within 1 NM radius of arpt surface to 4500' MSL SR-SS. ACTIVATE MIRL Rwy 08-26 and REIL Rwy 08 and Rwy 26—CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 123.0  
**ROSEWOOD RCO** 122.1R, 117.5T (DAYTON RADIO)  
 Ⓡ **DAYTON APP/DEP CON** 118.425 (360°-090°) 134.45 (181°-359°)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.  
**DAYTON (L) VOR/DME** 114.5 DQN Chan 92 N40°00.99' W84°23.81' 026° 9.8 NM to fld. 990/1W. **HIWAS.**  
**ROSEWOOD (H) VORTAC** 117.5 ROD Chan 122 N40°17.27' W84°02.59' 244° 14.3 NM to fld. 1080/5W.

**PORTAGE CO** (See RAVENNA)

**PORT BUCYRUS—CRAWFORD CO** (See BUCYRUS)

**PORT CLINTON** N41°31.12' W82°52.12' NOTAM FILE CLE. **DETROIT**  
**NDB (MHW)** 423 PCW at Carl R Keller Fld. **L-30F**

## PORT CLINTON

**CARL R KELLER FLD** (PCW) 3 E UTC−5(−4DT) N41°30.98' W82°52.17' **DETROIT**  
 590 B FUEL 100LL, JET A NOTAM FILE CLE **H-10G, L-30F**  
**RWY 09-27:** H5646X100 (ASPH) S-16, MIRL **IAP**  
**RWY 09:** REIL. PAPI(P4L)—GA 3.5° TCH 31'. Trees.  
**RWY 27:** REIL. PAPI(P4L)—GA 4° TCH 28'. Thld dsplcd 201'. Trees.  
**RWY 18-36:** H4001X75 (ASPH) MIRL  
**RWY 18:** Trees. **RWY 36:** Road.  
**AIRPORT REMARKS:** Attended 1300-2300Z+. ACTIVATE MIRL Rwy 09-27 and Rwy 18-36; REIL Rwy 09 and Rwy 27; PAPI Rwy 09 and Rwy 27—CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 118.775 (419) 734-9955  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
**SANDUSKY RCO** 122.1R 109.2T (CLEVELAND RADIO)  
**CLEVELAND APP/DEP CON** 126.35  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.  
**SANDUSKY (L) VOR/DME** 109.2 SKY Chan 29 N41°26.07' W82°39.29' 301° 10.9 NM to fld. 580/4W.  
**PORT CLINTON NDB (MHW)** 423 PCW N41°31.12' W82°52.12' at fld.  
**COMM/NAV/WEATHER REMARKS:** AWOS-3 ceiling unreliable.

**PORT COLUMBUS INTL** (See COLUMBUS)

**PORTSMOUTH** N38°46.91' W82°50.67' NOTAM FILE DAY. **CINCINNATI**  
**NDB (MHW)** 373 PMH 002° 3.5 NM to Greater Portsmouth Rgnl. VFR only. **L-22E**



**PORTSMOUTH****GREATER PORTSMOUTH RGNL** (PMH) 10 NE UTC-5(-4DT)

N38°50.43' W82°50.84'

663 B S4 FUEL 100LL, JET A1+ NOTAM FILE DAY

**RWY 18-36:** H5001X100 (ASPH) S-30, D-42, DT-70 MIRL**RWY 18:** REIL. PAPI(P4L) TCH 26'. Trees. Rgt tfc.**RWY 36:** REIL. PAPI(P4L) TCH 31'. Tree.

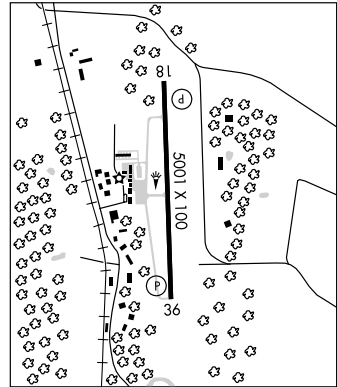
**AIRPORT REMARKS:** Attended Apr-Dec 1300-0100Z†, Jan-Mar 1300-0000Z†. Hill obstruction lgts 460' abv arpt (1124' MSL) 1 mile S and 410' abv arpt (1074' MSL) ½ mile NW. Acft not visible from one rwy end to another or no line of sight between rwy ends. Rwy 36 REIL OTS indef. Ldg fee for commercial acft waived with fuel purchase. ACTIVATE MIRL Rwy 18-36; REIL Rwy 18 and 36—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 125.175 (740) 820-2500.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **HUNTINGTON APP/DEP CON** 128.4**RADIO AIDS TO NAVIGATION:** NOTAM FILE LOU.**YORK (L) VORTAC** 112.8 YRK Chan 75 N38°38.65'

W82°58.70' 033° 13.3 NM to fld. 1040/5W.

**PORTSMOUTH NDB (MHW)** 373 PMH N38°46.91' W82°50.67'

002° 3.5 NM to fld. NOTAM FILE DAY. VFR only.

CINCINNATI  
H-10G, L-26H  
IAP**PUT IN BAY** (3W2) 1 SW UTC-5(-4DT) N41°38.20' W82°49.70'

DETROIT

595 NOTAM FILE CLE

**RWY 03-21:** H2870X75 (ASPH)**RWY 03:** Thld dsplcd 452'. Trees. Rgt tfc.**RWY 21:** Thld dsplcd 657'. Trees.

**AIRPORT REMARKS:** Attended May-Sept 1300-0100Z†, Oct-Apr 1230-2230Z†. Acft ops prohibited dusk-dawn. Expect moderate turbulence on departure and approach when wind exceeds 10 knots. Acft Indg Rwy 21 or departing Rwy 03 stay 1000' clear of Perry's Monument 352' AGL/942' MSL 1½ miles NE of arpt. No touch and go ldg; no student training. Parking/ramp fees are collected for all private or commercial acft. All pilots are required to check into the arpt office at the time of arrival. No tiedown ropes provided; please bring your own set. All acft are required to shut down engine(s) prior to enplaning/deplaning passengers.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**PUTNAM CO** (See OTTAWA)**RADNOR****PACKER** (5E9) 3 NW UTC-5(-4DT) N40°24.48' W83°13.16'

DETROIT

918 S4 FUEL 100LL TPA-1818(900) NOTAM FILE DAY

**RWY 09-27:** 3470X90 (TURF)**RWY 09:** Thld dsplcd 120'. Road.**RWY 27:** Trees.**AIRPORT REMARKS:** Attended continuously. Rwy 09-27 marked by cones.**COMMUNICATIONS:** CTAF 122.9**RAVENNA****PORTAGE CO** (29G) 3 N UTC-5(-4DT) N41°12.61' W81°15.10'

DETROIT

1197 B FUEL 100LL, JET A NOTAM FILE CLE

L-30G

**RWY 09-27:** H3500X75 (ASPH) MIRL

IAP

**RWY 09:** REIL. Trees.**RWY 27:** REIL. PAPI(P4L).**AIRPORT REMARKS:** Attended 1300Z†-dusk. 24 hr self svc fuel. Paraglider ops by permit only. Deer on and invof arpt.

All areas off rwy surface soft when wet or thawing. ACTIVATE MIRL Rwy 09-27; REIL Rwy 09 and Rwy 27 and

PAPI Rwy 27—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.05**AKRON RCO** 122.1R, 114.4T (CLEVELAND RADIO)Ⓡ **AKRON-CANTON APP/DEP CON** 118.6 (1100-0500Z†) **CLNC DEL** 125.65Ⓡ **CLEVELAND CENTER APP/DEP CON** 120.775 (0500-1100Z†)**RADIO AIDS TO NAVIGATION:** NOTAM FILE CAK.**AKRON (L) VOR/DME** 114.4 ACO Chan 91 N41°06.47' W81°12.09' 344° 6.5 NM to fld. 1194/4W.**READER-BOTSFORD** (See WELLINGTON)**RED STEWART AIRFIELD** (See WAYNESVILLE)**RICHARD DOWNING** (See COSHOCTON)



**RICKENBACKER INTL** (See COLUMBUS)

**ROSEWOOD** N40°17.27' W84°02.59' NOTAM FILE DAY. DETROIT  
(H) VORTAC 117.5 ROD Chan 122 246° 5.7 NM to Sidney Muni. 1080/5W. H-106, L-27E  
RCO 122.1R 117.5T (DAYTON RADIO)

**ROSS CO** (See CHILLICOTHE)**RUHE'S** (See LEIPSIC)

**RUSHSVLVANIA** N40°27.54' W83°40.08' NOTAM FILE DAY. DETROIT  
NDB (MHW) 326 RUV 233° 4.2 NM to Bellefontaine Rgnl. SHUTDOWN. L-27E

**ST CLAIRSVILLE**

**ALDERMAN** (2P7) 3 W UTC-5(-4DT) N40°03.41' W80°57.79' DETROIT  
1187 B NOTAM FILE CLE L-29B  
RWY 01-19: H2843X50 (ASPH) LIRL 0.8% up N. IAP  
RWY 01: Trees. RWY 19: Trees.  
AIRPORT REMARKS: Attended 1300Z±—dusk. Rwy 01-19 surface has med block cracking throughout. South half of ramp — poor condition — broken pavement. Call ahead to ACTIVATE rotating bcn and LIRL Rwy 01-19—740-695-0908. Ldg fee.  
COMMUNICATIONS: CTAF 122.9  
BELLAIRE RCO 122.1R 117.1T (CLEVELAND RADIO)  
® CLEVELAND CENTER APP/DEP CON 120.4  
RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.  
BELLAIRE (H) VOR/DME 117.1 AIR Chan 118 N40°01.02' W80°49.04' 297° 7.1 NM to fld. 1290/7W.

**ST MARYS**

**GRAND LAKE ST MARYS SPB** (012) 5 NE UTC-5(-4DT) N40°32.46' W84°29.44' DETROIT  
871 NOTAM FILE DAY  
WATERWAY 09-27: 7000X4000 (WATER)  
WATERWAY 09: Buoy. WATERWAY 27: Buoy. Rgt tfc.  
SEAPLANE REMARKS: Attended Apr-Nov 1300-2200Z±. Arpt CLOSED Nov 15 thru Apr 1 and Memorial and Labor day.  
No ngt Idgs. No public docks; PPR req for private dock tie up; call 419-394-8797.  
COMMUNICATIONS: CTAF 122.9  
COMM/NAV/WEATHER REMARKS: Acft operating at Seaplane Base should monitor 122.8 for tfc at Celina Lakefld and Neil Armstrong Wapakoneta Arpts.

**SALEM**

**KOONS** (8G8) 2 SW UTC-5(-4DT) N40°53.00' W80°52.99' DETROIT  
1327 NOTAM FILE CLE  
RWY 09-27: 1850X100 (TURF)  
RWY 09: P-line. RWY 27: Trees. Rgt tfc.  
AIRPORT REMARKS: Attended dalgt hrs. Ldg fee.  
COMMUNICATIONS: CTAF 122.9

**SALEM AIRPARK INC** (38D) 3 N UTC-5(-4DT) N40°56.89' W80°51.73' DETROIT  
1162 B S4 FUEL 100LL NOTAM FILE CLE L-306  
RWY 10L-28R: H3404X50 (ASPH) LIRL (NSTD) 0.3% up E IAP  
RWY 10L: Trees. RWY 28R: Thld dsplcd 258'. Trees.  
RWY 10R-28L: 2593X85 (TURF) 0.4% up E  
RWY 10R: Trees. RWY 28L: Pole.  
AIRPORT REMARKS: Attended 1400Z±—dusk. CAUTION: P-line crosses apch end of Rwy 28L and 28R at thld.  
CAUTION: Drag Strip 3500' SE of arpt. Arpt bcn ops dusk-0430Z±. Arpt lgts ops dusk-0500Z±. ACTIVATE LIRL Rwy 10L-28R—CTAF. For rotating bcn after 0430Z± call airport manager before dusk on 330-533-1060. Rwy 10L-28R NSTD LIRL; Rwy 28R lgtd 330' from rwy end with 360° green lgts; Rwy 10L lgtd 238' from rwy end .  
Rwy 10R-28L marked with yellow cones on N side of rwy; rwy ends not marked.  
COMMUNICATIONS: CTAF/UNICOM 122.7  
AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z±)  
® CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z±)  
RADIO AIDS TO NAVIGATION: NOTAM FILE YNG.  
YOUNGSTOWN (L) VORTAC 109.0 YNG Chan 27 N41°19.86' W80°40.48' 205° 24.5 NM to fld. 1160/5W.  
HIWAS.

**SALT FORK LODGE HELIPORT** (See CAMBRIDGE)



**SANDUSKY** N41°26.07' W82°39.29' NOTAM FILE CLE.  
(L) VOR/DME 109.2 SKY Chan 29 at Griffing-Sandusky. 580/4W.

DETROIT  
H-10G, L-30F

**SANDUSKY CO RGNL** (See FREMONT)

## SANDUSKY

**GRIFFING-SANDUSKY** (SKY) 3 SE UTC-5(-4DT) N41°26.00' W82°39.14'

DETROIT  
L-30F  
IAP

580 B S4 FUEL 100LL, JET A AOE NOTAM FILE CLE

RWY 09-27: H3559X60 (ASPH) S-9 LIRL

RWY 09: REIL. Thld dsplcd 183'. Road. RWY 27: PAPI(P4L). Tree.

RWY 18-36: H2593X40 (ASPH) LIRL

RWY 36: Thld dsplcd 405'. Road.

**AIRPORT REMARKS:** Attended 1300-0000Z†. Arpt CLOSED Christmas day. Waterfowl bird hazard adjacent to arpt. Deer on and invof arpt. Ldg fee. Flight Notification Service (ADCUS) available.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

SANDUSKY RCO 122.1R 109.2T (CLEVELAND RADIO)

CLEVELAND APP/DEP CON 126.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

SANDUSKY (L) VOR/DME 109.2 SKY Chan 29 N41°26.07' W82°39.29' at fld. 580/4W.

**SCHMELTZER HELIPORT** (See AKRON)

**SEAGATE HELISTOP** (See TOLEDO)

## SEBRING

**TRI-CITY** (3G6) 1 SE UTC-5(-4DT) N40°54.36' W81°00.00'

DETROIT  
L-29B  
IAP

1188 FUEL 100LL NOTAM FILE CLE

RWY 17-35: H2768X45 (ASPH) MIRL (NSTD)

RWY 17: Trees. RWY 35: Tree.

**AIRPORT REMARKS:** Attended 1400Z†-dusk. 100LL fuel avbl 24 hrs with credit card. ACTIVATE MIRL Rwy 17-35—CTAF. Rwy 17-35 NSTD MIRL; thld lgtd with 2 blue/red lgts each side.

**COMMUNICATIONS:** CTAF 122.9

AKRON RCO 122.1R 114.4T (CLEVELAND RADIO)

Ⓡ AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z†)

Ⓡ CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CAK.

AKRON (L) VOR/DME 114.4 ACO Chan 91 N41°06.47' W81°12.09' 147° 15.2 NM to fld. 1194/4W.

**SENECA CO** (See TIFFIN)

**SHELBY COMMUNITY** (12G) 2 W UTC-5(-4DT) N40°52.39' W82°41.84'

DETROIT  
L-29A  
IAP

1120 B S4 NOTAM FILE CLE

RWY 18-36: H3174X50 (ASPH) S-5 LIRL (NSTD)

RWY 18: Road. RWY 36: P-line.

RWY 03-21: 1890X125 (TURF)

RWY 03: Tree. RWY 21: Road.

**AIRPORT REMARKS:** Attended 1100-2200Z†. Rwy 18-36 NSTD LIRL;

Rwy 18 thld lgts 220' from rwy end.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

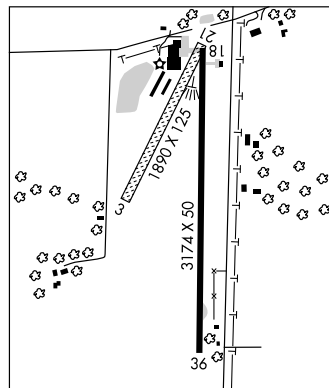
Ⓡ MANSFIELD APP/DEP CON 124.2 (1100-0400Z†)

CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12'

W82°35.46' 276° 4.9 NM to fld. 1210/3W





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**SIDNEY MUNI** (I12) 3 S UTC-5(-4DT) N40°14.49' W84°09.05'

DETROIT

1044 B S2 **FUEL** 100LL, JET A TPA-1844(800) NOTAM FILE DAY

L-27E

**RWY 10-28:** H4785X75 (ASPH) MIRL

IAP

**RWY 10:** PAPI(P2L). Thld dsplcd 480'. Trees.**RWY 28:** REIL. PAPI(P2R)—GA 3.0° TCH 40'. Road.**RWY 05-23:** H2981X50 (ASPH)**RWY 05:** Road.**RWY 23:** P-line.**AIRPORT REMARKS:** Attended 1300-2300Z+, ACTIVATE MIRL Rwy 10-28, and REIL Rwy 28—CTAF.**WEATHER DATA SOURCES:** AWOS-3 120.425 (937) 492-3683.**COMMUNICATIONS:** CTAF/UNICOM 123.05**ROSEWOOD RCO** 122.1R 117.5T (DAYTON RADIO)® **DAYTON APP/DEP CON** 118.425 (360°-090°)**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.**ROSEWOOD (H) VORTAC** 117.5 ROD Chan 122 N40°17.27' W84°02.59' 246° 5.7 NM to fld. 1080/5W.

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**SPORTYS** N39°04.06' W84°12.92' NOTAM FILE DAY.

CINCINNATI

**NDB (MHW)** 245 PWF at Clermont Co. NDB unusable byd 15 NM.

L-27E



**SPRINGFIELD-BECKLEY MUNI** (SGH)(KSGH) CIV/MIL/ANG 5 S UTC-5(-4DT)CINCINNATI  
H-10G, L-27E  
IAP, DIAP, AD

N39°50.42' W83°50.41'

1051 B S4 FUEL 100LL, JET A TPA—See Remarks Class IV, ARFF Index A

NOTAM FILE SGH

**RWY 06-24:** H9009X150 (ASPH-CONC-GRVD) S-50, D-60 PCN 60

R/B/W/T HIRL

**RWY 06:** REIL. PAPI(P4L)—GA 3.0° TCH 43'. Trees.**RWY 24:** ALSF2. PAPI(P4L)—GA 3.0° TCH 54'. Tree.**RWY 15-33:** H5499X100 (ASPH) S-12 MIRL**RWY 15:** REIL. PAPI(P4L)—GA 3.0° TCH 36'. Trees.**RWY 33:** REIL. PAPI(P4L) TCH 36'. Trees.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 06:** TORA-9009 TODA-9009 ASDA-9009 LDA-9009**RWY 15:** TORA-5499 TODA-5499 ASDA-5499 LDA-5499**RWY 24:** TORA-9009 TODA-9009 ASDA-9009 LDA-9009**RWY 33:** TORA-5499 TODA-5499 ASDA-5499 LDA-5499**ARRESTING GEAR/SYSTEM****RWY 06** ← HOOK E5 (35' OVRN) BAK-14 BAK-12A(B) (943')BAK-14 BAK-12A(B) (991') HOOK E5 (35' OVRN) → **RWY 24****MILITARY SERVICE: A-GEAR** Cable raised by BAK-14 device on request to twr. BAK-12A(B) avbl Tue-Fri 1230-2200Z†, may be extended, other times by NOTAM for mil flying. Rwy 06-24 E-5 chain in overrun, departure engagement only.**JASU 6(AM32A-60B) FUEL J8(Mil) (NC 100LL, A)****FLUID PRESAIR LPOX LOX OIL 0-133-148-156(Mil) SOAP****AIRPORT REMARKS:** Attended 1200-2300Z†. Deer on and invof arpt. Heavy bird activity fall and winter months.

Caution: Bird watch cond phase I (Dec-Jun) indicates light bird activity. Phase II (Jul-Nov) indicates heavy activity normally associated with migratory season. During twr operating hours Rwy 24 is the preferred rwy, wind 10 knots or less. Rwy 06-24 arresting device may be up when twr clsd. Rws 06 and 24 acft arresting device BAK 12 located 35' beyond apch end Rws 06 and 24. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call arpt manager 937-325-6108. Rwy 15-33 limited to 25,000 lbs single wheel load capacity or less. Noise Abatement: Avoid over flying Yellow Springs 2 NM SW blo 4000', practice circling instrument approach not authorized blo 2000' establish on final. Avoid overflying ANG ramp. When twr clsd ACTIVATE ALSF2 Rwy 24, MIRL Rwy 15-33; REIL Rwy 06, Rwy 15 and Rwy 33—CTAF. HIRL Rwy 06-24 preset on med ints to increase ints ACTIVATE—CTAF. Rwy 15-33 and Twy F not avbl for air carrier ops. Rwy 06-24 980' concrete NE end, 1200' concrete SW end. TPA 2100 (1049), overhead 2600 (1549).

**MILITARY REMARKS:** See FLIP AP/1 Supplementary Arpt Remarks. **RSTD** Mil practice instrument apch not authorized when twr clsd. **CAUTION** A-gear Rwy 06-24 may be up when twr clsd. **MISC** Military practice instrument approach not authorized when twr closed. Wx obsn-Rwy 06 apch end not visible from the official point of obsn. Visibility is ltd from SW to NW. **ANG** PPR at all times DSN 346-2319, C937-327-2319. Runway Condition Reading not avbl. All tran acft ctc 178 F/W OPS. Inbound acft accepting penetrate and radar vectors from IND Center and Dayton Apch expect extensive low altitude vectoring. Opr Tue-Fri 1230-2200Z†, may be extended other times by NOTAM for mil flying. Std USAF RSRS applies.

**WEATHER DATA SOURCES:** ASOS 134.975. LAWR5.**COMMUNICATIONS:** CTAF 120.7 ATIS 257.875 UNICOM 122.95① **DAYTON APP/DEP CON** 126.5 (091°-180°) 118.85 127.225 327.1**TOWER** 120.7 291.775 (Tue-Fri 1230-2200Z†) other times by NOTAM. **GND CON** 121.7 225.4**178 FW OPS (SABER OPS)** 324.7**AIRSPACE:** CLASS D svc Tue-Fri 1230-2200Z†, other times by NOTAM, other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE SGH.(T) **VORW/DME** 113.2 SGH Chan 79 N39°50.19' W83°50.70' at fld. 1047/4W.

VOR portion unusable 156°-200°.

(T) **TACAN** Chan 65 XSF (133.8) N39°50.29' W83°50.44' at fld. 1052/4W. NOTAM FILE DAY. TACAN unusable 090°-115° blo 5000' byd 15 NM. Unmonitored when twr clsd. No NOTAM MP Thu 1330-1530Z†.**CLARK CO NDB (MHW)** 341 CCJ N39°52.42' W83°46.77' 238° 3.4 NM to fld. NDB unmonitored.**ILS** 111.3 I-SGH Rwy 24. Class IE. Unmonitored when twr clsd. No NOTAM MP Tue 1800-2100Z†.**STANLEY** N40°51.75' W84°36.83' NOTAM FILE DAY.**NDB (MHW)** 411 VFU at Van Wert Co.DETROIT  
L-27E**STARK COUNTY SHERIFF HELIPORT** (See CANTON)



**STEUBENVILLE****JEFFERSON CO AIRPARK** (2G2) 4 W UTC-5(-4DT) N40°21.57' W80°42.00'

DETROIT

1196 B FUEL 80, 100LL NOTAM FILE CLE

L-29B

RWY 14-32: H4400X60 (ASPH) S-7 MIRL

IAP

RWY 14: Trees. RWY 32: REIL. PAPI(P4L). Trees.

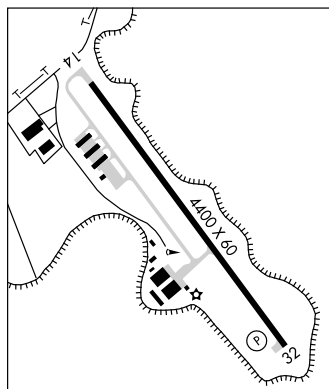
**AIRPORT REMARKS:** Attended May-Sep, 1400-0200Z†, Oct-Apr 1400-2200Z†. Deer on and in/ov arpt. Ultralight activity on and in/ov arpt weekday evenings and weekends. Rwy 32 VASI OTS indef. ACTIVATE MIRL Rwy 14-32; REIL Rwy 32—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

PITTSBURG APP/DEP CON 124.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE HLG.

WHEELING (L) VOR/DME 112.2 HLG Chan 59 N40°15.60' W80°34.12' 322° 8.5 NM to fld. 1270/07W.

**SUMIE** N39°59.17' W82°45.27' NOTAM FILE DAY.

CINCINNATI

NDB (HW/LDM) 391 CM 281° 6.4 NM to Port Columbus Intl. Unmonitored.

L-29A

**TABEY** N41°34.15' W81°34.43' NOTAM FILE BKL.

DETROIT

NDB (LOM) 248 BF 245° 5.8 NM to Burke Lakefront. SHUTDOWN.

**TIFFIN** N41°05.89' W83°12.46' NOTAM FILE CLE.

DETROIT

NDB (MHW) 269 TII at Seneca Co. NDB unmonitored.

L-28J, 29A

**TIFFIN****SENECA CO** (16G) 2 SW UTC-5(-4DT) N41°05.64' W83°12.75'

DETROIT

786 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE CLE

L-28J, 29A

RWY 06-24: H4000X75 (ASPH) MIRL

IAP

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 38'. Tree.

RWY 24: REIL. PAPI(P4L)—GA 3.0° TCH 38'. Thld dsplcd 115'. Trees.

**AIRPORT REMARKS:** Attended 1300Z†-dusk. Fuel available 24 hrs with credit card. Rwy 06 PAPI unusable byd 5° left of centerline. Rwy 24 VASI unusable byd 5° left of centerline. ACTIVATE MIRL Rwy 06-24; REIL and PAPI Rwy 06 and Rwy 24—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 121.175 (419) 443-1043.**COMMUNICATIONS:** CTAF/UNICOM 123.0

® TOLEDO APP/DEP CON 120.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 073° 26.0 NM to fld. 820/2W.

TIFFIN NDB (MHW) 269 TII N41°05.89' W83°12.46' at fld. NOTAM FILE CLE. NDB unmonitored.

**TIVERTON** N40°27.48' W82°07.61' NOTAM FILE CLE.

DETROIT

(L) VOR/DME 116.5 TVT Chan 112 062° 9.2 NM to Holmes Co. 1340/3W.

L-29A



**TOLEDO****METCALF FLD** (TDZ) 6 SE UTC-5(-4DT) N41°33.90' W83°28.93'623 B S4 FUEL 100LL, JET A OX 1, 3 NOTAM FILE TDZ  
RWY 14-32: H5829X100 (ASPH-GRVD) S-63, D-85, ST-107 MIRLRWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 34'. Thld dsplcd 578'.  
Tower.

RWY 32: VASI(V4L)—GA 3.0° TCH 43'. Thld dsplcd 587'. Road.

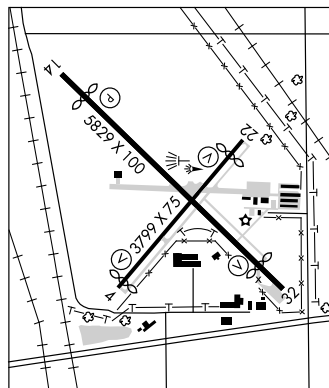
RWY 04-22: H3799X75 (ASPH) S-63, D-85, ST-107 MIRL  
RWY 04: REIL. VASI(V4L)—GA 3.0° TCH 45'. Thld dsplcd 100'.  
Road.RWY 22: REIL. VASI(V4R)—GA 3.0° TCH 39'. Thld dsplcd 380'.  
Railroad.**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 14: TORA 4600 TODA 4600 ASDA 5242 LDA 4680

RWY 32: TORA 5268 TODA 5268 ASDA 5268 LDA 4680

**AIRPORT REMARKS:** Attended Mon-Fri continuously, Sat-Sun  
1300-0100Z±. Parallel twy Rwy 04-22 and Rwy 14-32 35' wide.  
Seagulls on and in/ov arpt. Ldg fee. ACTIVATE REIL Rwy 04 and  
Rwy 22—CTAF. Rwy 04 VASI OTS indef.**WEATHER DATA SOURCES:** ASOS 121.575 (419) 838-5034.**COMMUNICATIONS:** CTAF/UNICOM 123.05

Ⓡ TOLEDO APP/DEP CON 126.1 CLNC DEL 125.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.**WATERVILLE (L) VOR/DME** 113.1 VVW Chan 78 N41°27.09' W83°38.32' 048° 9.8 NM to fld. 660/2W.**TOLEDO EXPRESS** (TOL) 10 W UTC-5(-4DT) N41°35.21' W83°48.47'

683 B S4 FUEL 100LL, JET A OX 3 LRA Class I, ARFF Index B NOTAM FILE TOL

RWY 07-25: H10599X150 (ASPH-GRVD) S-100, D-174, ST-175, DT-300, DDT-550

HIRL CL

RWY 07: ALSF2. TDZL. Trees.

RWY 25: MALSR. VASI(V4L)—GA 3.0° TCH 51'. Trees. 0.3% up.

RWY 16-34: H5599X150 (ASPH-GRVD) S-100, D-174, ST-175,  
DT-300 MIRL

RWY 16: REIL. PAPI(P4L)—GA 3.0° TCH 48'. Trees.

RWY 34: REIL.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 07: TORA 10599 TODA 10599 ASDA 10599 LDA 10599

RWY 16: TORA 5599 TODA 5599 ASDA 5599 LDA 5599

RWY 25: TORA 10599 TODA 10599 ASDA 10599 LDA 10599

RWY 34: TORA 5599 TODA 5599 ASDA 5599 LDA 5599

**ARRESTING GEAR/SYSTEM**

RWY 07 ←BAK-12 BAK-12 →RWY 25

**AIRPORT REMARKS:** Attended continuously. Fuel and svc avbl1300-0500Z±. Birds and deer on and in/ov arpt. Twy A west of  
Rwy 16 and the ramp between Twy B9 and B13 not visible from  
twr. Customs: Sat-Sun req must be made prior to 2200Z± on Fri,  
phone 419-259-6424.**WEATHER DATA SOURCES:** ASOS (419) 865-8351.**COMMUNICATIONS:** ATIS 118.75 UNICOM 122.95

Ⓡ APP/DEP CON 126.1 (360°-179°) 134.35 (180°-359°) 123.975

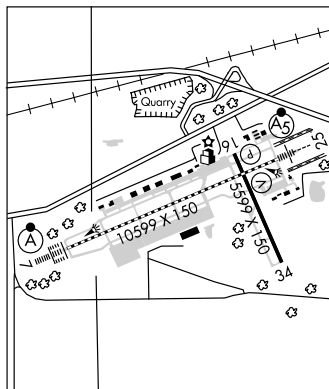
TOWER 118.1 GND CON 121.9 CLNC DEL 121.75

**AIRSPACE:** CLASS C svc continuous etc APP CON**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.**WATERVILLE (L) VOR/DME** 113.1 VVW Chan 78 N41°27.09' W83°38.32' 319° 11.1 NM to fld. 660/2W.**TOPHR NDB (LOM)** 219 TO N41°33.21' W83°55.27' 074° 5.5 NM to fld. Unmonitored. NOTAM FILE TOL.

ILS 109.7. I-TOL Rwy 07. Class IE. LOM TOPHR NDB.

ILS 108.7 I-BQE Rwy 25. Class IA.

ASR

**SEAGATE HELISTOP** (6T2) 00 N UTC-5(-4DT) N41°39.25' W83°31.88'

650 NOTAM FILE CLE

**HELIPAD H1:** H50X50 (CONC)**HELIPAD REMARKS:** Unattended. ACTIVATE orange perimeter lgts—CTAF. Helipad H1 NSTD 1-box (2 VASIS). Helipad  
H1 not marked with "H." Helipad H1 perimeter lgts.**COMMUNICATIONS:** CTAF/UNICOM 123.05



**TOPHR** N41°33.21' W83°55.27' NOTAM FILE TOL.  
**NDB (LOM)** 219 TO 074° 5.5 NM to Toledo Express. Unmonitored.

DETROIT

**TORONTO**

**EDDIE DEW MEML AIRPARK** (1G8) 2 NW UTC-5(-4DT) N40°28.55' W80°37.69'

DETROIT

1084 NOTAM FILE CLE

**RWY 16-34:** 2268X145 (TURF) LIRL (NSTD)

**RWY 16:** Trees. **RWY 34:** Trees.

**AIRPORT REMARKS:** Attended irregularly. ACTIVATE NSTD LIRL Rwy 16-34—CTAF. Rwy 16-34 NSTD LIRL; rwy ends marked with 360° green lgts.

**COMMUNICATIONS:** CTAF 122.9

**TREMONT CITY**

**MAD RIVER INC** (I54) 1 N UTC-5(-4DT) N40°01.20' W83°49.71'

DETROIT

958 B S3 **FUEL** 100LL TPA—1803(845) NOTAM FILE DAY

**RWY 09-27:** 3405X110 (TURF) LIRL (NSTD)

**RWY 09:** Thld dspcd 340'. Pole. **RWY 27:** Thld dspcd 900'. Trees.

**AIRPORT REMARKS:** Attended irregularly. Rwy 09-27 NSTD LIRL; only 2167' lgtd between dspcd thlds. Rwy 09 first 340' not marked; Rwy 27 first 505' not marked; only 2560' marked with orange cones; Rwy 09-27—dspcd thlds marked with cones and one green lgt each side of rwy. Rwy lgts OTS indef. ACTIVATE LIRL Rwy 09-27—122.8. For rotating bcn call 513-969-8521.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

**DAYTON APP/DEP CON** 118.425 (360°-096°)

**TRI-CITY** (See SEBRING)

**TROY**

**TROY SKYPARK** (37I) 4 SW UTC-5(-4DT) N39°59.45' W84°16.23'

CINCINNATI

930 NOTAM FILE DAY

**RWY 05-23:** 3450X100 (TURF) LIRL (NSTD)

**RWY 05:** Thld dspcd 225'. Trees. Rgt tfc.

**RWY 23:** Thld dspcd 985'. Trees.

**AIRPORT REMARKS:** Attended irregularly. ACTIVATE NSTD LIRL Rwy 05-23—CTAF. Rwy 05-23 NSTD LIRL; Rwy 23 end marked with 360° red lgts; Rwy 05-23 dspcd thld lgtd with one green lgt each side of rwy; Rwy 05-23 marked with white buckets and lights; Rwy 05-23 dspcd thld marked by green lgts and buckets.

**COMMUNICATIONS:** CTAF 122.9

**DAYTON APP/DEP CON** 134.45 (181°-359°)

**WACO FLD** (1WF) 2 S UTC-5(-4DT) N40°00.89' W84°11.88'

CINCINNATI

820 NOTAM FILE DAY

**RWY 18-36:** 2428X100 (TURF)

**RWY 18:** Thld dspcd 600'. Tree. **RWY 36:** Trees.

**AIRPORT REMARKS:** Attended Mon-Fri dawn-dusk. 405' (AGL) lgtd radio antenna 4200' NE of Rwy 18. Rwy 18-36 edges, thlds, and dspcd thld Rwy 18 marked with white barrels.

**COMMUNICATIONS:** CTAF 122.9

**UNION CO** (See MARYSVILLE)

**UNIVERSITY** N39°15.44' W82°07.56' NOTAM FILE DAY.

CINCINNATI

**NDB (MHW)** 250 UGS 247° 5.5 NM to Ohio University Snyder Fld.

L-29B



**UPPER SANDUSKY****WYANDOT CO** (56D) 4 NW UTC-5(-4DT) N40°53.00' W83°18.87'DETROIT  
L-28J, 29A  
IAP

830 B NOTAM FILE CLE

RWY 18-36: H3997X75 (ASPH) S-12.5 MIRL

RWY 18: Trees. RWY 36: P-line.

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 18-36-123.050.

COMMUNICATIONS: CTAF 122.9

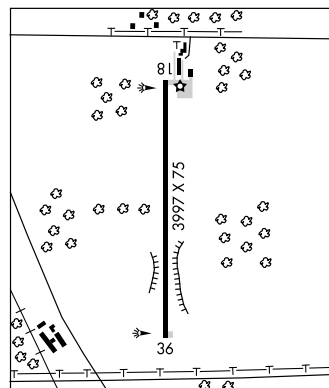
Ⓡ MANSFIELD APP/DEP CON 124.2 (1100-0400Z)

Ⓡ CLEVELAND CENTER APP/DEP CON 135.1 (0400-1100Z)

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32'

W83°45.36' 104° 20.5 NM to fld. 820/2W.

**URBANA****GRIMES FLD** (I74) 1 N UTC-5(-4DT) N40°07.96' W83°45.21'DETROIT  
L-27E  
IAP

1068 B S2 FUEL 100LL, JET A TPA-1868(800) NOTAM FILE DAY

RWY 02-20: H4400X100 (ASPH) MIRL

RWY 02: REIL. PAPI(P4R). Tree.

RWY 20: REIL. PAPI(P4L). Tree.

AIRPORT REMARKS: Attended Mon-Fri 1300-2130Z, Sat-Sun irregularly. Deer and birds on and in/ovf arpt. ACTIVATE MIRL Rwy 02-20; REIL Rwy 02 and 20-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.325 (937) 484-5863.

COMMUNICATIONS: CTAF/UNICOM 122.7

Ⓡ DAYTON APP/DEP CON 118.425 (360°-090°)

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27' W84°02.59' 130° 16.2 NM to fld. 1080/5W.

**WELLER** (38I) 3 SE UTC-5(-4DT) N40°05.47' W83°41.36'

DETROIT

1150 NOTAM FILE DAY

RWY 09-27: 2534X75 (TURF)

RWY 09: Trees.

RWY 27: P-line.

AIRPORT REMARKS: Attended irregularly. Rwy 09-27 outlined with yellow tires. Trees on both sides of rwy at W end. Trees W of twy and S of rwy.

COMMUNICATIONS: CTAF/UNICOM 123.0

**VAN WERT CO** (VNW) 2 SW UTC-5(-4DT) N40°51.88' W84°36.57'DETROIT  
L-27E  
IAP

785 B FUEL 100LL, JET A TPA-1597(812) NOTAM FILE DAY

RWY 09-27: H4000X75 (ASPH) S-8 MIRL

RWY 09: REIL. PAPI(P4L). P-line.

RWY 27: REIL. PAPI(P4L). Trees.

RWY 18-36: 2610X105 (TURF)

RWY 18: Thld dsplcd 315'. Tree.

RWY 36: Thld dsplcd 510'. P-line.

AIRPORT REMARKS: Attended Apr-Oct Mon-Sat 1400-2300Z, Sun by prior arrangement, Nov-Mar Mon-Sat 1500-2200Z, Sun 1700-2300Z. Parachute Jumping. Ultralights opr evenings, weekends and in no-wind conditions. Rwy 09 REIL OTS indef. Rwy 18 and Rwy 36 dsplcd thld marked with white L-shaped 2'x6' concrete pads. Major airframe repairs. ACTIVATE MIRL Rwy 09-27 and REIL and PAPI Rwy 09 and Rwy 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 125.175 (419) 232-2967.

COMMUNICATIONS: CTAF/UNICOM 123.0

Ⓡ FORT WAYNE APP/DEP CON 132.15 (SE-NE of active rwy) 127.2 (SW-NW of active rwy)

RADIO AIDS TO NAVIGATION: NOTAM FILE FWA.

FORT WAYNE (H) VORTACW 117.8 FWA Chan 125 N40°58.74' W85°11.28' 104° 27.2 NM to fld. 793/00E.

STANLEY NDB (MHW) 411 VFU N40°51.75' W84°36.83' at fld. NOTAM FILE DAY.

COMM/NAV/WEATHER REMARKS: Approach control sectorization based upon Fort Wayne rwy usage.

**VERSAILLES** N40°12.37' W84°31.36' NOTAM FILE DAY.DETROIT  
L-27E

NDB (MHW) 356 VES at Darke Co. Unmonitored. OTS indef.



**VERSAILLES****DARKE CO** (VES) 2 SW UTC-5(-4DT) N40°12.27' W84°31.92'

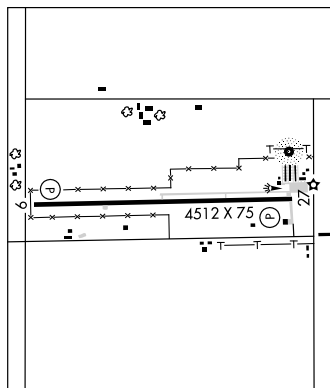
1007 B S3 FUEL 100LL, JET A+ NOTAM FILE DAY

**RWY 09-27:** H4512X75 (ASPH) S-12.5E MIRL**RWY 09:** REIL. PAPI(P2L). Road.**RWY 27:** REIL. PAPI(P2L). Acft.**AIRPORT REMARKS:** Attended dawn-dusk. FBO CLOSED on major holidays. CAUTION: Deer occasionally on rwy. ACTIVATE MIRL Rwy 09-27; REIL Rws 09 and 27—CTAF.**WEATHER DATA SOURCES:** AWOS-3 123.75 (937) 526-3154.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® DAYTON APP/DEP CON 134.45 (181°-359°)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DAY.**DAYTON (L) VOR/DME 114.5** DQN Chan 92 N40°00.99'W84°23.81' 332° 12.9 NM to fld. 990/1W. **HIWAS.****VERSAILLES NDB (MHW) 356** VES N40°12.37' W84°31.36'

at fld. Unmonitored. OTS indef.

**DETROIT****L-27E****IAP****VINTON CO** (See McARTHUR)**WACO FLD** (See TROY)**WADSWORTH****WADSWORTH MUNI** (3G3) 2 SW UTC-5(-4DT) N41°00.19' W81°45.39'

974 B FUEL 100LL, JET A1+ NOTAM FILE CLE

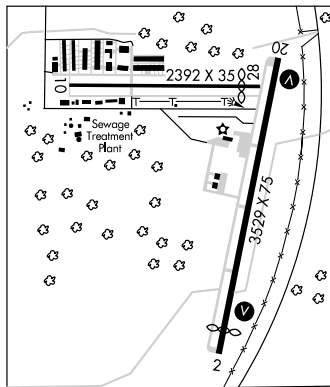
**RWY 02-20:** H3529X75 (ASPH) MIRL**RWY 02:** VASI(V2R)—GA 3.5° TCH 27'. Thld dspcd 129'. Tree.**RWY 20:** VASI(V2L)—GA 3.5° TCH 48'. P-line.**RWY 10-28:** H2392X35 (ASPH) 0.4% up E**RWY 10:** Tree. **RWY 28:** Thld dspcd 237'. Tree.**AIRPORT REMARKS:** Attended 1300-2300Z+. Arpt unattended all Federal Holidays. No line of sight between rwy 02 and 10. Rwy 10 CLOSED for txf when wind is less than 15 knots from the E. Gliders use rgt txf to Rwy 10. CAUTION: Glider activity use Rwy 10-28. Rwy 20 calm rwy blo 4 knots for noise abatement. Avoid hospital to the north. ACTIVATE MIRL Rwy 02-20 and VASI Rwy 02 and Rwy 20—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z+)

® CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z+)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CAK.**AKRON (L) VOR/DME 114.4** ACO Chan 91 N41°06.47'

W81°12.09' 260° 26 NM to fld. 1194/4W.

**DETROIT****L-29B****IAP****WELTZIEN SKYPARK** (15G) 3 W UTC-5(-4DT) N41°01.70' W81°47.91'

1210 B S4 FUEL 80, 100LL TPA-2000(790) NOTAM FILE CLE

**RWY 03-21:** H2410X37 (ASPH) LIRL(NSTD)**RWY 03:** Thld dspcd 178'. Trees.**RWY 21:** PVASI (PSIL). Thld dspcd 50'. Trees.**AIRPORT REMARKS:** Attended continuously. Pavement strength limit to 6500 pounds per arpt manager. Rwy 03-21 no touch and go lds. ACTIVATE NSTD LIRL Rwy 03-21—CTAF. Rwy 03-21 NSTD LIRL due to spacing and not FAA approved L-800 series.**COMMUNICATIONS:** CTAF/UNICOM 123.05**DETROIT**



**WAKEMAN** (I64) 3 NE UTC-5(-4DT) N41°17.59' W82°22.24'

DETROIT

848 S4 FUEL 100LL NOTAM FILE CLE

L-30F

RWY 03-21: H3800X55 (ASPH) LIRL (NSTD)

RWY 03: Tree.

RWY 21: Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300Z±dusk, Sun

1400Z±dusk. ACTIVATE NSTD LIRL Rwy 03-21—CTAF. Rwy

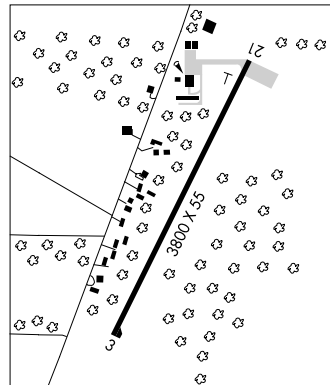
03-21 thld lgts offset. Rwy 03-21 NSTD LIRL, Rwy 21 lgts are located 135' up rwy.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48'

W82°09.72' 253° 10.2 NM to fld. 780/5W. HIWAS.



## WAPAKONETA

**NEIL ARMSTRONG** (AXV) 8 SW UTC-5(-4DT) N40°29.61' W84°17.89'

DETROIT

913 B S2 FUEL 100LL, JET A1+ OX 3 TPA—1903(990) NOTAM FILE DAY

H-106, L-27E

RWY 08-26: H5500X100 (ASPH-GRVD) MIRL

IAP

RWY 08: Thld dsplcd 700'. Trees.

RWY 26: REIL. VASI(V2L)—GA 3.0 TCH 53'. Thld dsplcd 237'. Road.

RWY 18-36: 2631X80 (TURF)

RWY 18: Thld dsplcd 290'. Road.

RWY 36: Trees.

AIRPORT REMARKS: Attended 1300-2200Z±. Rwy 18-36 CLOSED indef. Rwy 18-36 surface rough and uneven.

ACTIVATE MIRL Rwy 08-26 and REIL Rwy 26—122.7. Rwy 26 REIL OTS indef. Rwy 26 VASI OTS indef.

WEATHER DATA SOURCES: AWOS-3 128.325 (419) 753-2821.

COMMUNICATIONS: CTAF/UNICOM 122.8

ROSEWOOD RCO 122.1R 117.5T (DAYTON RADIO)

Ⓡ DAYTON APP/DEP CON 118.425 (360°-090°)

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27' W84°02.59' 322° 17 NM to fld. 1080/5W.

ILS/DME 109.15 I-AXV Chan 28Y Rwy 26. LOC only. ILS OTS indef. DME OTS indef.

**WARREN** (62D) 5 NW UTC-5(-4DT) N41°16.02' W80°55.64'

DETROIT

905 S2 FUEL 100LL NOTAM FILE CLE

RWY 04-22: H2907X30 (ASPH) LIRL (NSTD)

RWY 04: Thld dsplcd 87'. Trees.

RWY 22: Thld dsplcd 578'. Trees.

RWY 18-36: 2700X140 (TURF)

RWY 18: Trees.

RWY 36: Trees.

AIRPORT REMARKS: Attended irregularly. ACTIVATE NSTD LIRL Rwy 04-22—123.3. Rwy 04-22 NSTD LIRL; Rwy 04 no

rwy end lgts; Rwy 22 dsplcd thld wrong color. Rwy 18 marked with yellow buckets. Rwy 04-22 LIRL OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8

## WASHINGTON COURT HOUSE

**FAYETTE CO** (I23) 2 NE UTC-5(-4DT) N39°34.23' W83°25.23'

CINCINNATI

980 B FUEL 100LL, JET A, MOGAS TPA—1780(800) NOTAM FILE DAY

H-106, L-29A

RWY 05-23: H5097X75 (ASPH) S-30, D-40 MIRL

IAP

RWY 05: Railroad.

RWY 23: REIL. PAPI(P4L). Railroad.

AIRPORT REMARKS: Attended Mon-Sat 1300-2300Z±. ACTIVATE MIRL Rwy 05-23—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.775

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ COLUMBUS APP/DEP CON 132.3 134.35

RADIO AIDS TO NAVIGATION: NOTAM FILE FFO.

MIDWEST (T) VORW/DME 112.9 MXQ Chan 76 N39°25.78' W83°48.07' 068° 19.6 NM to fld. 1050/4W.

COURT HOUSE NDB (MHW) 414 CSS N39°36.05' W83°23.50' 222° 2.3 NM to fld. NOTAM FILE DAY. NDB

unusable 115°-165° byd 20 NM.



**WATERVILLE** N41°27.09' W83°38.32' NOTAM FILE CLE.  
 (L) VOR/DME 113.1 VVW Chan 78 319° 11.1 NM to Toledo Express. 660/2W.  
 RCO 122.1R 113.1T (CLEVELAND RADIO)

DETROIT  
 H-106, L-28J

## WAUSEON

**FULTON CO** (USE) 4 N UTC-5(-4DT) N41°36.61' W84°07.63'

779 B S4 FUEL 100LL, JET A, A1+ NOTAM FILE CLE

RWY 09-27: H3882X75 (ASPH) S-30 LIRL

RWY 09: REIL. PAPI(P4L). Road.

RWY 27: REIL. PAPI(P4R). Trees. Rgt tfc.

RWY 18-36: 2117X75 (ASPH-TURF)

RWY 18: Trees.

RWY 36: Tree.

**AIRPORT REMARKS:** Attended Mon-Sat 1300Z±-dusk, Sun 1500Z±-dusk. 100LL self serve. Rwy 18-36 359' of center section paved. First 270' of Rwy 18 turf and first 1328' of Rwy 36 turf. Deer occasionally on rwy. Twy clsd indef. Rwy 27 REIL OTS indef. ACTIVATE LIRL Rwy 09-27; REIL Rwy 09 and 27; PAPI Rwy 09 and Rwy 27—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

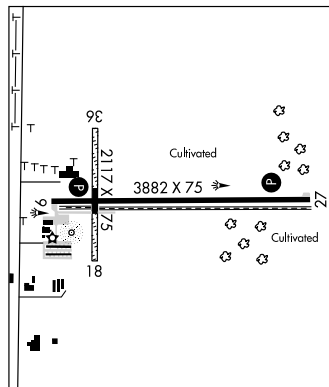
® TOLEDO APP/DEP CON 134.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

**WATERVILLE (L) VOR/DME** 113.1 VVW Chan 78 N41°27.09' W83°38.32' 296° 24 NM to fld. 660/2W.

NDB (MHW) 375 USE N41°36.55' W84°07.96' at fld.

DETROIT  
 L-28J  
 IAP



**WAVERLY** N39°10.02' W82°55.93' NOTAM FILE DAY.  
 NDB (MHW) 385 EOP at Pike Co. NDB unusable byd 15 NM.

CINCINNATI  
 L-29A

## WAVERLY

**PIKE CO** (EOP) 3 NE UTC-5(-4DT) N39°10.02' W82°55.69'

660 B FUEL 100LL, JET A NOTAM FILE DAY

RWY 07-25: H4900X75 (ASPH) S-58 MIRL

RWY 07: REIL. PAPI(P4L)—GA 4.0° TCH 37'. Tree.

RWY 25: REIL. PAPI(P4L)—GA 3.0° TCH 25'. Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2130Z±. 24 hr credit card self svc avbl. Deer on and infov arpt. ACTIVATE MIRL Rwy 07-25—CTAF, PAPI Rwy 07 and Rwy 25 on dusk-dawn.

**WEATHER DATA SOURCES:** AWOS-A 118.4.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

® INDIANAPOLIS CENTER APP/DEP CON 135.575

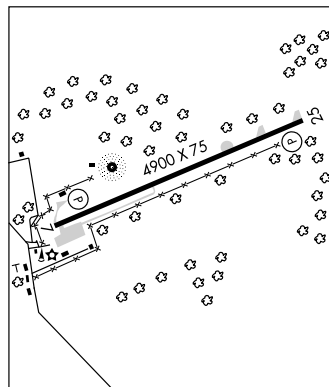
**RADIO AIDS TO NAVIGATION:** NOTAM FILE LOU.

**YORK (L) VORTAC** 112.8 YRK Chan 75 N38°38.65'

W82°58.70' 009° 31.4 NM to fld. 1040/5W.

**WAVERLY NDB (MHW)** 385 EOP N39°10.02' W82°55.93' at fld. NOTAM FILE DAY. NDB unusable byd 15 NM.

CINCINNATI  
 L-29A  
 IAP



**WAYNE CO** (See WOOSTER)



**WAYNESVILLE****RED STEWART AIRFIELD** (40I) 4 W UTC-5(-4DT) N39°30.32' W84°07.31'

CINCINNATI

955 S4 FUEL 100LL NOTAM FILE DAY

RWY 08-26: 3142X150 (TURF)

RWY 08: Crops. RWY 26: Thld dsplcd 540'. Tree.

**AIRPORT REMARKS:** Attended 1300Z±-dusk. Transient tfc 1 Jan-15 Apr notification required for rwy condition prior to arrival 513-897-7717. Rwys and aprons fair rolling turf; sod N and S of rwy used as twy. Banner towing and gliders on and in/ovf arpt. Glider operations on N taxiway. Rwy 26 dsplcd thld marked with 3 outboard cones on each side of rwy. Rwy 08-26 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

DAYTON APP/DEP CON 126.5 (091°-180°)

**WEIKER** (See GREEN SPRINGS)**WELLER** (See URBANA)**WELLINGTON****READER-BOTSFORD** (67D) 00 SE UTC-5(-4DT) N41°09.75' W82°12.16'

DETROIT

864 TPA-1650(786) NOTAM FILE CLE

RWY 18-36: 2850X100 (TURF)

RWY 18: Trees. RWY 36: Trees.

**AIRPORT REMARKS:** Attended Apr-Nov Wed, Sat-Sun dalgt hrs. Arpt CLOSED 1 Dec to 30 Apr. Glider ops. Monitor glider activities on CTAF. Rwy 18-36 lgtd thld Rwy 18 relocated 375'; Rwy 36 relocated 800'; 1825' Rwy 18-36 usable for ngt ops.

COMMUNICATIONS: CTAF 122.9

**WELTZIEN SKYPARK** (See WADSWORTH)**WEST UNION** N38°51.36' W83°33.83' NOTAM FILE DAY.

CINCINNATI

NDB (MHW) 359 AMT at Alexander Salamon. NDB OTS indef.

L-266

**WEST UNION****ALEXANDER SALAMON** (AMT) 4 NW UTC-5(-4DT) N38°51.09' W83°33.98'

CINCINNATI

896 B FUEL 80, 100LL NOTAM FILE DAY

RWY 05-23: H3762X65 (ASPH) MIRL 0.3% up NE

RWY 05: Trees. RWY 23: REIL. PAPI(P4L)—GA 3.0° TCH 30'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat dalgt hrs. Fuel avbl 24 hrs—credit card. ACTIVATE MIRL Rwy 05-23; PAPI Rwy 23 and REIL Rwy 23—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

® INDIANAPOLIS CENTER APP/DEP CON 124.225

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

YORK (L) VORTAC 112.8 YRK Chan 75 N38°38.65' W82°58.70' 299° 30.3 NM to fld. 1040/5W.

WEST UNION NDB (MHW) 359 AMT N38°51.36' W83°33.83' at fld. NOTAM FILE DAY. OTS indef.

**WILLARD** (8G1) 1 S UTC-5(-4DT) N41°02.33' W82°43.47'

DETROIT

967 FUEL 100LL NOTAM FILE CLE

RWY 10-28: H4028X65 (ASPH) MIRL 0.8% up W

RWY 10: Thld dsplcd 300'. Building. RWY 28: Thld dsplcd 610'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z±. For fuel after hrs call 567-224-2492. ACTIVATE MIRL Rwy 10-28—CTAF.

COMMUNICATIONS: CTAF 122.9

MANSFIELD RCO 122.6 122.1R 108.8T (CLEVELAND RADIO)

® MANSFIELD APP/DEP CON 124.2 (1100-0400Z±) CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12' W82°35.46' 332° 11.9 NM to fld. 1210/3W.

**WILLIAMS CO** (See BRYAN)



**WILLOUGHBY LOST NATION MUNI** (LNN) 3 N UTC-5(-4DT) N41°41.04' W81°23.39'

DETROIT

626 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE CLE

H-10G, L-30G

RWY 05-23: H5028X100 (ASPH) S-68, D-80, DT-124 MIRL

IAP

RWY 05: REIL. PAPI(P4R). Thld dsplcd 428'. Pole.

RWY 23: REIL. PAPI(P4L). Trees.

RWY 10-28: H4272X100 (ASPH) S-68, D-80, DT-124 MIRL

RWY 10: REIL. PAPI(P2L). Trees.

RWY 28: REIL. PAPI(P2L). Thld dsplcd 1124'. Poles.

**AIRPORT REMARKS:** Attended 1200-0200Z†. For arpt attendance or fuel svcs after hrs call 440-942-7092 from 0400-1100Z† for prior arrangements. Multiple practice ldg and tkf prohibited Mon-Fri 0400-1300Z†; Sat-Sun and holidays 0400-1400Z†. Deer and Birds on and invof arpt. Rwy 05 REIL OTS indef. Rwy 23 PAPI OTS indef. Rwy 23 REIL OTS indef. ACTIVATE MIRL Rwy 05-23 and Rwy 10-28; REIL Rwy 05; Rwy 23; Rwy 10 and Rwy 28; and PAPI Rwy 05; Rwy 23; Rwy 10 and Rwy 28—CTAF. Ldg fee for all commercial acft by weight; multi-engine and larger.

**COMMUNICATIONS:** CTAF/UNICOM 122.725

Ⓡ CLEVELAND APP/DEP CON 125.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLE.

LOST NATION (T) VORW/DME 110.2 LNN Chan 39 N41°41.06' W81°23.37' at fld. 620/8W. Unmonitored.

LAKELAND NDB (MHW) 263 LQL N41°40.95' W81°22.74' at fld. NDB unmonitored.

**COMM/NAV/WEATHER REMARKS:** UNICOM freq unmonitored May-Sep (0300-1200Z†); Oct-Apr (0200-1200Z†). For IFR clearance ctc Cleveland apch control at 216-898-2040.

**WILMINGTON****AIRBORNE AIRPARK** (ILN) 2 SE UTC-5(-4DT) N39°25.68' W83°47.53'

CINCINNATI

1077 B S4 FUEL JET A OX 1, 2 Class IV, ARFF Index A NOTAM FILE ILN

H-10G, L-27E

RWY 04L-22R: H10701X150 (CONC-GRVD) S-100, D-200, ST-175, DT-390, DDT-750 HIRL CL

IAP

RWY 04L: MALSR. PAPI(P4L)—GA 3.0° TCH 62'.

RWY 22R: ALSF-2. TDZL. PAPI(P4L)—GA 3.0° TCH 71'.

0.4% down.

RWY 04R-22L: H9000X150 (CONC-GRVD) S-100, D-200, ST-175, DT-390, DDT-750 HIRL CL

RWY 04R: MALSR. PAPI(P4L)—GA 3.0° TCH 71'. 0.3% up.

RWY 22L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 71'. 0.4% down.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04L: TORA-10701 TODA-10701 ASDA-10701 LDA-10701

RWY 04R: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 22L: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 22R: TORA-10701 TODA-10701 ASDA-10701 LDA-10701

**AIRPORT REMARKS:** Attended continuously. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call arpt manager 937-382-5591. Rwy 04L-22R has 1000' paved area on SW end and 200' paved area on NE end. Rwy 04R-22L has 200' paved area on each end. Twy C clsd SR-SS. For HIRL Rwy 04L-22R and Rwy 04R-22L when twr clsd contact ops on 119.47. Rwy 04R touchdown, midpoint and rollout RVR avbl. Rwy 22L touchdown, midpoint and rollout RVR avbl. Four hrs PPR for all transient acft call arpt manager 937-382-5591 extension 2960 during operating hrs. After hrs call flight control 937-302-5591 extension 2450. Ldg fee. U.S. Customs user fee arpt.

**WEATHER DATA SOURCES:** ASOS (937) 383-7334.**COMMUNICATIONS:** CTAF 119.475 ATIS 124.925

Ⓡ DAYTON APP/DEP CON 126.5 (091°-180°) 118.85 127.225

WILMINGTON TOWER 119.475, 125.6 (04R-22L in instrument meteorological conditions) Mon 1200-Sat 2300Z†, Sun 1100-2300Z†.

GND CON 121.6 CLNC DEL 125.6

**AIRSPACE:** CLASS D svc Mon 1200Z†-Sat 2300Z†, Sun 1100-2300Z†; other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ILN.

MIDWEST (T) VORW/DME 112.9 MXQ Chan 76 N39°25.78' W83°48.07' at fld. 1050/4W. Unmonitored when twr clsd.

AIRBO NDB (MHW/LOM) 407 IL N39°29.58' W83°44.29' 217° 4.6 NM to fld.

Unmonitored Sat-Sun 2300-1100Z† and Sun 2300 til Mon 1200Z†.

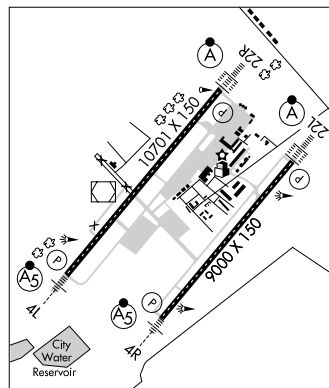
CUBLA NDB (MHW/LOM) 299 HW N39°21.21' W83°52.55' 045° 5.9 NM to fld.

ILS 110.7 I-HWM Rwy 04L. LOM CUBLA NDB. Unmonitored when twr clsd. LOC unusable byd 15° left or right of course.

ILS/DME 109.35 I-IYV Chan 30(Y) Rwy 04R. Class IT. Unmonitored when twr clsd.

ILS 110.7 I-ILN Rwy 22R. Class III. LOM AIRBO NDB. Unmonitored when twr clsd.

ILS/DME 109.35 I-RHX Chan 30(Y) Rwy 22L. Unmonitored when twr clsd.

**COMM/NAV/WEATHER REMARKS:** Emergency frequency 121.5 not avbl at twr.



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**CLINTON FLD** (I66) 4 NW UTC-5(-4DT) N39°30.15' W83°51.80'

CINCINNATI

1033 B S4 FUEL 100LL, JET A NOTAM FILE DAY

L-27E

RWY 03-21: H3579X65 (ASPH) S-12.5 MIRL 0.3% up NE

IAP

RWY 03: PAPI(P2L)—GA 3.0° TCH 20'. Trees.

RWY 21: PAPI(P2L)—GA 3.75° TCH 20'. Trees.

AIRPORT REMARKS: Attended May-Sep 1300-0100Z†, Oct-Apr 1300-2200Z†. Fuel Jet A unavbl indef. FBO closed

Thanksgiving; Christmas and Easter. After hrs call 937-725-2782. Deer and birds on and invof arpt. ACTIVATE

MIRL Rwy 03-21 and PAPI Rwy 03 and Rwy 21—CTAF.

WEATHER DATA SOURCES: AWOS-3 124.175 (937) 382-1376.

COMMUNICATIONS: CTAF/UNICOM 123.0

Ⓡ DAYTON APP/DEP CON 126.5 (091°-180°) 118.85 127.225

RADIO AIDS TO NAVIGATION: NOTAM FILE FFO.

MIDWEST (T) VOR/DME 112.9 MXQ Chan 76 N39°25.78' W83°48.07' 331° 5.2 NM to fld 1050/4W.

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**HOLLISTER FLD** (2B6) 5 E UTC-5(-4DT) N39°26.25' W83°42.50'

CINCINNATI

1090 NOTAM FILE DAY

RWY 05-23: 3203X80 (TURF)

RWY 05: Thld dsplcd 92'. Crops.

RWY 23: Thld dsplcd 565'. P-Line.

RWY 13-31: 2670X80 (TURF)

RWY 13: Thld dsplcd 250'. Fence.

RWY 31: Thld dsplcd 732'. Fence.

AIRPORT REMARKS: Attended dalgt hrs. Rwy 13-31 CLOSED indef. CAUTION—pheasants released N side of rwy for hunting Sep-Apr. Model acft radio-control area S of Rwy 23. Call for rwy conditions prior to ldg from Nov-Apr.

Rwy 05-23 dspld thlds marked with white tires. Rwy 13-31 dsplcd thlds marked with white tires.

COMMUNICATIONS: CTAF 122.9

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**WOOD CO** (See BOWLING GREEN)

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**WOODSFIELD**
**MONROE CO** (4G5) 1 N UTC-5(-4DT) N39°46.74' W81°06.17'

CINCINNATI

1197 B S4 FUEL 80, 100LL NOTAM FILE CLE

L-29B

RWY 07-25: H3805X75 (ASPH) S-18 MIRL

IAP

RWY 07: Thld dsplcd 173'. Trees.

RWY 25: REIL. Trees.

AIRPORT REMARKS: Attended irregularly. For fuel call 740-472-1882.

ACTIVATE MIRL Rwy 07-25; rotating bcn and REIL Rwy 25—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

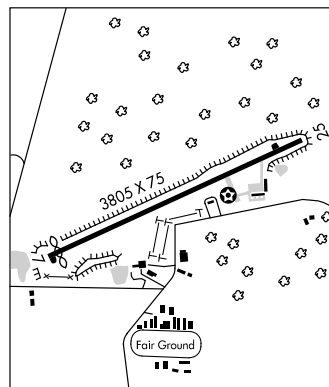
BELLAIRE RCO 122.1R 117.1T (CLEVELAND RADIO)

Ⓡ CLEVELAND CENTER APP/DEP CON 120.4

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

BELLAIRE (H) VOR/DME 117.1 AIR Chan 118 N40°01.02'

W80°49.04' 230° 19.4 NM to fld. 1290/7W.




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**WOOSTER**
**WAYNE CO** (BJJ) 6 NE UTC-5(-4DT) N40°52.49' W81°53.30'

DETROIT

1136 B S4 FUEL 100LL, JET A1+ OX 4 NOTAM FILE BJJ

H-106, L-29B

RWY 10-28: H5191X100 (ASPH) S-30 HIRL 0.5% up E

IAP

RWY 10: REIL. Trees.

RWY 28: REIL. VASI(V4R)—GA 3.0° TCH 33'. Thld dsplcd 218'. Road.

AIRPORT REMARKS: Attended Mon-Fri 1200-0000Z†, Sat-Sun 1400-2300Z†, Rwy 28 VASI unusable byd 8' left of centerline. HIRL Rwy 10-28 preset low ints dusk-dawn; to increase ints and ACTIVATE REIL Rwy 10 and Rwy 28—CTAF.

WEATHER DATA SOURCES: ASOS 118.075 (330) 669-9105.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z†) CLNC DEL 121.75

Ⓡ CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

BRIGGS (L) VOR/DME 112.4 BSV Chan 71 N40°44.44' W81°25.93' 295° 22.3 NM to fld. 1230/4W.



**WRIGHT PATTERSON AFB** (FFO) (KFFO) AF (AFRC) 8 NE UTC-5(-4DT) N39°49.56' W84°02.77' **CHICAGO**  
 823 B TPA—See Remarks NOTAM FILE FFO Not insp. **H-106, L-27E**  
**RWY 05L-23R:** H12600X300 (PEM-GRVD) PCN 67 R/B/W/T HIRL **DIAP, AD**  
**RWY 05L:** PAPI(P4L)—GA 3.0° TCH 50'. **RWY 23R:** ALSF1. PAPI(P4R)—GA 3.0° TCH 50'. Rgt tfc.  
**RWY 05R-23L:** H7000X150 (ASPH) PCN 118 R/B/W/T MIRL  
**RWY 05R:** PAPI(P4L). **RWY 23L:** PAPI(P4L).  
**RUNWAY DECLARED DISTANCE INFORMATION**  
**RWY 05L:** TORA-12601 TODA-12601  
**RWY 05R:** TORA-7000 TODA-7000  
**RWY 23L:** TORA-7000 TODA-7000  
**RWY 23R:** TORA-12601 TODA-12601  
**ARRESTING GEAR/SYSTEM**  
**RWY 05L:** ←BAK-14 BAK-12(B) (1676') BAK-14 BAK-12(B) (1740') **RWY 23R**  
**MILITARY SERVICE: A-GEAR** RWY 05L-23R south end arresting gear located 864' s of dsplcd thld.  
**JASU** 9(A/M32A-86) 1(MC-1A) 4(AM32-95) (8)(A/M32A-60A) **FUEL J8 FLUID SP PRESAIR LHOX LOX**  
**OIL** 0-148-156 SOAP Avbl weekdays 1200-2130Z† except Federal holiday. **TRAN ALERT** Opr 1000-0500Z†, avbl other times with 24 hr prior notice to Base OPS. Fleet svc avbl 2 hr prior notice. Payment rqr by Avcad.  
**MILITARY REMARKS:** See FLIP AP/1 Supplementary Arpt Remarks. **RSTD** All dep acft fly rwy heading until 1800' unless twr approves otherwise. Inbound acft with VIP ctc Base OPS on PTD 30 minutes prior to arrival. Arm/de-arm area S end Twy B clsd. Portion of Twy A located NE of the south entrance to the West Ramp is permanently clsd. Twy A1 entrance to the West Ramp is permanently clsd. **CAUTION** Bird Watch Condition Phase I (Nov-Jun) indicates lgt bird activity. Phase II (Jul-Oct) indicates heavy bird activity normally associated with migratory season. Portions of the flameout and overhead tfc pat not visible from twr. Unlgt obstructions surround afld. Multiple crane ops 2.7 NM southwest of KFFO, 1171' MSL and blo. **TFC PAT** TPA-Rectangular tactical/trainer 2800(1977), other turbojet/turboprop 2300(1477), lgt reciprocating engine acft (12,500 lb or blo gross weight) 1800(977), overhead 2800(1977). **CSTMS/AG/IMG** Ltd CSTMS avbl. 24 hr prior notice for CSTMS requests. Call DSN: 787-2131 COM: 937-257-2131. **MISC** First 2600' Rwy 05L conc. Rwy 05L-23R 10060' avbl for tkof and ldg. Rwy 05L dsplcd thld clsd for taxi, tkof and tkof and ldg roll on Rwy 23R due to high foreign object damage potential; do not use south end and dsplcd thld for tkof and ldg computations. Base OPS DSN 787-2131, C937-257-2131. Expect dep from Rwy 23 R at Twy B intersection 11600' avbl, if full length rqr, request back-taxi from twr. Standard RSRs applied. **AFRC** 445 AW opr Mon-Fri and training weekend 1200-0330Z†.  
**COMMUNICATIONS:** ATIS 124.475 269.9 PTD 122.85 372.2  
 (R) **DAYTON APP CON** 126.5 327.1 (091°-180°) 118.85 127.225  
**PATTERSON TOWER** 126.9 281.45 **GND CON** 121.8 335.8  
 (R) **DAYTON DEP CON** 126.5 327.1 (091°-180°)  
**445A W AFRC COMD POST** (BUCKEYE CON) 349.4 **PMSV METRO** 344.6 (Tran aircrews ctc 15th OWS for weather briefing DSN 576-9755, C618-256-9755. Reported prevailing visibility may not represent entire afld due to obstruction from observation point; observation point obstruction from 050°-210°. Touchdown visibility not obstruction. ATC will enhance sfc observation when visibility less than 4 SM and different from reported visibility.)  
**AIRSPACE:** CLASS D svc continuous other times CLASS E.  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FFO.  
**SPRINGFIELD (T) VORW/DME** 113.2 SGH Chan 79 N39°50.19' W83°50.70' 270° 9.3 NM to fld. 1047/4W.  
**PATTERSON (T) TACAN** Chan 99 FFO (115.2) N39°49.14' W84°03.33' at fld. 804/4W.  
**ILS** 109.7 I-FAE Rwy 05L. Glids slope not avbl.  
**ILS** 109.7 I-FFO Rwy 23R.  
**COMM/NAV/WEATHER REMARKS:** ILS Rwy 05L and 23R opr on same frequency 109.7, but different ident (I-FAE, I-FFO). Positive ident of ILS prior to flying apch.

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**WYANDOT CO** (See UPPER SANDUSKY)

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**WYNGKOOP** (See MOUNT VERNON)

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**YELLOW BUD** N39°31.61' W82°58.68' NOTAM FILE DAY.

(T) **VOR** 112.5 XUB at Pickaway Co Meml.

**RCO** 122.1R 112.5T (DAYTON RADIO)

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**CINNINNATI**

**L-29A**



**YOUNGSTOWN****LANSDOWNE** (Ø4G) 2 NE UTC-5(-4DT) N41°07.83' W80°37.18'**DETROIT**

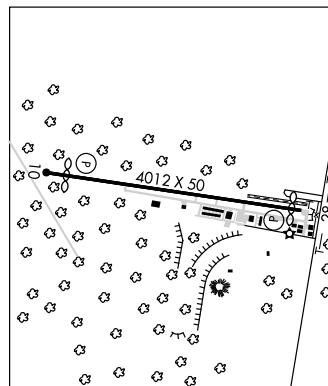
1044 NOTAM FILE CLE

**L-30H****RWY 02-20:** H3073X50 (ASPH) S-7.5 0.9% up N**IAP****RWY 02:** Trees. **RWY 20:** Trees.**AIRPORT REMARKS:** Unattended. Arpt CLOSED indef. Rwy 02-20 vegetation in cracks, last 500' Rwy 12 depressions in pavement. Ramp in poor condition; breaking pavement.**WEATHER DATA SOURCES:** HIWAS 109.0 YNG.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **YOUNGSTOWN APP/DEP CON** 133.95 (1100-0500Z‡)Ⓡ **CLEVELAND CENTER APP/DEP CON** 120.775 (0500-1100Z‡)**RADIO AIDS TO NAVIGATION:** NOTAM FILE YNG.**YOUNGSTOWN (L) VORTAC** 109.0 YNC Chan 27 N41°19.86' W80°40.48' 173° 12.3 NM to fld. 1160/5W.  
HIWAS.**HUBBARD NDB (MHW)** 408 HBD N41°09.17' W80°31.89' 259° 4.2 NM to fld. NOTAM FILE CLE.**YOUNGSTOWN ELSER METRO**

(4G4) 7 SW UTC-5(-4DT) N40°57.71' W80°40.64'

**DETROIT**1070 B S4 **FUEL** 100LL, JET A OX 1, 2 NOTAM FILE CLE**L-30H****RWY 10-28:** H4012X50 (ASPH) MIRL 1.4% up E**IAP****RWY 10:** REIL. PAPI(P2L). Thld dsplcd 348'. Trees.**RWY 28:** REIL. PAPI(P2L)—GA 3.75°. Thld dsplcd 260'. Trees.**AIRPORT REMARKS:** Attended 1300-dusk. Twr 1085' AGL (2118' MSL)  
7.5 NM NNE. Rwy 28 PAPI OTS indef.**WEATHER DATA SOURCES:** HIWAS 109.0 YNG.**COMMUNICATIONS:** CTAF/UNICOM 123.05Ⓡ **AKRON-CANTON APP/DEP CON** 125.5 (1100-0500Z‡)

CLNC DEL 119.25

Ⓡ **CLEVELAND CENTER APP/DEP CON** 128.15 (0500-1100Z‡)**RADIO AIDS TO NAVIGATION:** NOTAM FILE CAK.**AKRON (L) VOR/DME** 114.4 ACO Chan 91 N41°06.47'  
W81°12.09' 114° 25.4 NM to fld. 1194/4W.



**YOUNGSTOWN/WARREN****YOUNGSTOWN—WARREN RGNL** (YNG) 10 N UTC-5(-4DT) N41°15.64' W80°40.75'

1192 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 ARFF Index—See Remarks

NOTAM FILE YNG

**RWY 14-32:** H9003X150 (ASPH-GRVD) S-140, D-209, ST-175, DT-340, DDT-600 HIRL**RWY 14:** MALSR. PAPI(P4L)—GA 3.0° TCH 57'. 0.9% up.**RWY 32:** MALSR. PAPI(P4L)—GA 3.0° TCH 40'. Trees. 0.8% down**RWY 05-23:** H5002X150 (ASPH-GRVD) S-138, D-175, ST-175, DT-280 MIRL 1.4% up NE**RWY 05:** REIL. VASI(V4L)—GA 3.25° TCH 51'. Trees.**RWY 23:** REIL. PAPI(P4R)—GA 3.0° TCH 24'.**RWY 143-323:** H3500X60 (ASPH) 111 F/A/W/T**RUNWAY DECLARED DISTANCE INFORMATION****RWY 05:** TORA-5002 TODA-5002 ASDA-5002 LDA-5002**RWY 14:** TORA-9003 TODA-9003 ASDA-9003 LDA-9003**RWY 23:** TORA-5002 TODA-5002 ASDA-5002 LDA-5002**RWY 32:** TORA-9003 TODA-9003 ASDA-9003 LDA-9003**RWY 143:** TORA-3500 TODA-3500 ASDA-3500 LDA-3500**RWY 323:** TORA-3500 TODA-3500 ASDA-3500 LDA-3500**AIRPORT REMARKS:** Attended continuously. Deer and bird haz. All

military acft ctc Vader ops for bird watch condition. Rwy 143-323

used as a military assault strip. Hold short signs Twy H1 OTS until

further notice. Class I, ARFF Index B, PPR for ARFF Index D call

330-609-1369. Twy G East of Twy H and Twy F North of Rwy

05-23 clsd to acft over 50,000 pounds gross weight. Twy T W of Rwy 05-23 closed indef. Terminal ramp and

general aviation parking not visible from the NW portion of Twy H. Military ramp for military use only. Ldg fee for acft over 5,000 lbs gross weight.

**WEATHER DATA SOURCES:** ASOS (330) 856-9357. HIWAS 109.0 YNG.**COMMUNICATIONS:** ATIS 123.75 UNICOM 122.95

RCO 122.2 122.1R 109.0T (CLEVELAND RADIO)

Ⓡ APP/DEP CON 133.95 127.15 (1100-0500Z‡)

Ⓡ CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z‡)

TOWER 119.5 GND CON 121.9 CLNC DEL 118.25

**AIRSPACE:** TRSA svc ctc APP CON within 20 NM.**RADIO AIDS TO NAVIGATION:** NOTAM FILE YNG.

(L) VORTAC 109.0 YNG Chan 27 N41°19.86' W80°40.48' 188° 4.2 NM to fld. 1160/5W. HIWAS.

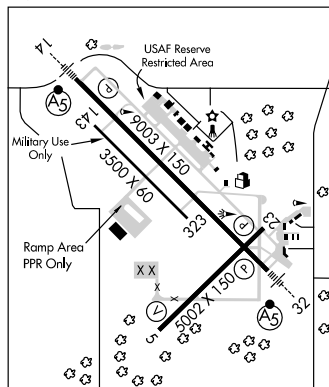
VOR unusable 015°-179° blo 5000' and 180°-014° byd 25 NM blo 5000'.

**FETCH NDB (LOM) 338** YN N41°12.03' W80°35.77' 322° 5.2 NM to fld. Unmonitored. LOM unusable byd 10 NM.

ILS 110.1 I-YNG Rwy 32. Class IA. LOM FETCH NDB. NDB unmonitored. LOM unusable byd 10 NM.

ILS 110.1 I-MQK Rwy 14. Class IA. OM unmonitored.

ASR (1100-0500Z‡)

**ZANESVILLE****PARR** (42I) 5 N UTC-5(-4DT) N40°00.42' W82°00.74'

790 S4 FUEL 80, 100LL NOTAM FILE CLE

**RWY 10-28:** H3100X26 (ASPH) S-10 LIRL**RWY 10:** Trees. **RWY 28:** Thld dspcd 61'. Trees. Rgt tfc.**AIRPORT REMARKS:** Attended 1400Z‡-dark, holidays 1700Z‡-dark. For LIRL Rwy 10-28 key 122.8 five times on; eight times slowly to deactivate. Rwy 10-28 NSTD LIRL.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE ZVZ.**ZANESVILLE (L) VOR/DME 111.4** ZVZ Chan 51 N39°56.45' W81°53.56' 312° 6.8 NM to fld. 900/6W.**DETROIT****L-29B**



**ZANESVILLE MUNI** (ZZV) 5 E UTC-5(-4DT) N39°56.67' W81°53.53'

CINCINNATI

900 B S4 FUEL 80, 100LL, JET A1 + OX 4 TPA-1900(1000) NOTAM FILE ZZV

H-106, L-29B

**RWY 04-22:** H5000X150 (ASPH-CONC) S-38, D-50, DT-75 HIRL 0.5% up SW

IAP

**RWY 04:** REIL. PAPI(P4R)—GA 3.0° TCH 35'. Trees.

**RWY 22:** REIL. PAPI(P4L).

**RWY 16-34:** H4999X150 (ASPH-CONC) S-38, D-50, DT-75 MIRL 0.6% up SE

**RWY 16:** REIL. Trees. **RWY 34:** REIL. PAPI(P4L). Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1200-0100Z†, Sat-Sun 1300-2300Z†. Deer and birds on and in/ovf arpt. Rwy 16-34 rwy cracking. Acft not visible from end to end. Twy A lgts OTS indef. HIRL Rwy 04-22, MIRL Rwy 16-34, REIL Rwy 04, Rwy 22, Rwy 16 and Rwy 34 NSTD pilot controlled, ACTIVATE—CTAF, 5 clicks on, 7 clicks off. Rotating bcn OTS indef. Rwy 04-22 and Rwy 16-34 are concrete with asphalt overlays. Rwy 16-34 75 ft new overlay in center sides are poor.

**WEATHER DATA SOURCES:** ASOS 111.4 ZZV (740) 453-8139.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

RCO 122.1R 111.4T (CLEVELAND RADIO)

RCO 122.5 122.2 (CLEVELAND RADIO)

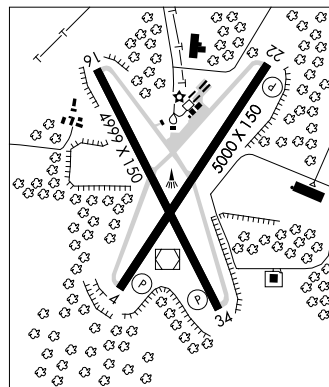
INDIANAPOLIS CENTER APP/DEP CON 124.45

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ZZV.

(L) VOR/DME 111.4 ZZV Chan 51 N39°56.45' W81°53.56' at fld. 900/6W. ASOS.

NDB (MHW) 204 HRA N39°54.38' W81°55.16' 035° 2.6 NM to fld. Unmonitored. NDB OTS indef. SHUTDOWN.

ILS/DME 109.95 I-TNF Chan 36(Y) Rwy 22. Unmonitored.





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**MODEL ROCKET ACTIVITY IN ILLINOIS****Hillsboro Municipal Airport (3K4), Hillsboro, IL**

Model Rocket activity will be conducted within a 2 NM radius of the VLA273011, SFC to 8,000 Feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Tuscola Airport (K96), Tuscola, IL**

Model Rocket activity will be conducted within a 2 NM radius of Tuscola Airport (K96), SFC to 10,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

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**AEROBATIC PRACTICE AREAS IN ILLINOIS****Litchfield Municipal Airport (3LF), Litchfield, IL**

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200 feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Smith Airport (LL27), Macomb, IL**

Aerobatic practice will be conducted within 2 NM radius of Smith Airport (LL27), SFC to 4,100 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Williamson County Regional Airport (MWA), Marion, IL**

Aerobatic practice will be conducted within 1 NM radius of Williamson County Regional Airport (MWA), SFC to 5,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Pinckneyville-DuQuoin Airport (PJY), Pinckneyville, IL**

Aerobatic practice will be conducted within 2 NM radius of Pinckneyville-DuQuoin Airport (PJY), SFC to 3,900 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Springfield IL, Abraham Lincoln Capital Airport (SPI)**

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

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**AEROBATIC PRACTICE AREA****Norris Field (8I12), Richmond, IN**

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) VORTAC 193R/6 DME. Flights will occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information, Contact Dayton APP CON at 1-937-454-7310 or freq. 134.45.

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**AEROBATIC PRACTICE AREA****Skyway Estates Airport (60G), Eaton Rapids, MI**

Aerobatic Flight Activity will be conducted within a 1 (one) NM radius of the Lansing (LAN) VORTAC 171R/8DME. Flights will occur from SR to SS from 2,500 MSL to 6,000 MSL.

Pilots should use caution when operating within this area. For further information, contact Lansing ATCT at 1-517-321-1355 or freq. 119.9.

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**Search Light Activity  
Dayton, OH**

Search light activity will be conducted at the Dayton Schuster Performing Arts Center, Dayton, OH (FFO VORTAC 241/7.23, Lat 39-45-39.56N, Lon 084-11-32.94W) at and above 1500 MSL, from dusk until midnight. Searchlight beams may be injurious to pilots/passengers eyes at 1500 MSL and above. Flash blindness or cockpit illumination may occur at greater distances, to several miles. For further information, contact Dayton AFSS at 937-454-8398.

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**COMMUNICATIONS ADVISORIES****Indianapolis ARTCC****NABB INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 10 at Taxiway ZH  
Runway 14L at Taxiway U2  
Runway 14L at Taxiway V  
Runway 28 at Taxiway ZW  
Runway 28 at Taxiway ZV  
Runway 32R at Taxiway V  
Runway 32L at Taxiway T10  
Runway 32L at Taxiway M

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower unless the aircraft's position can be verified by the Airport Surface Detection Equipment (ASDE) prior to the issuance of a departure clearance. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only, departures shall not be permitted from any point on the runway other than the intersections listed above, and only one aircraft at a time is permitted to taxi into position and hold on each respective runway.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
INDIANAPOLIS INTERNATIONAL AIRPORT (IND)  
INDIANAPOLIS, INDIANA**

Indianapolis International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 23L at Taxiways "C2" and "D2"  
Runway 23R at Taxiways "A2" and "B2"

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
GENERAL MITCHELL INTERNATIONAL AIRPORT (MKE)  
MILWAUKEE, WISCONSIN**

Milwaukee Mitchell International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersection listed below.

**Runway 19R at Taxiway Victor**

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise.

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**INTERSECTING RUNWAY OPERATIONS**

**CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct intersecting runway operations to Runway 28 and Runway 14R whereby an aircraft departing Runway 28 shall be through the intersection of Runway 14R prior to the arriving aircraft on Runway 14R reaching a point no closer than 5,000 feet from the intersection of both runways.

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**SIMULTANEOUS OPPOSITE DIRECTION OPERATIONS  
CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct arrivals to Runways 14L & 14R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather conditions. ORD ATCT is authorized to conduct simultaneous converging instrument approaches to runways 14R & 22R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather conditions.

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**SIMULTANEOUS ILS APPROACHES WITH ONE GLIDE SLOPE OUT OF SERVICE  
CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International Airport Traffic Control Tower and Chicago TRACON have been authorized to conduct independent simultaneous ILS approaches with the glide slope of one parallel runway inoperative.

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**ILS PRM (SIMULTANEOUS CLOSE PARALLEL) PROCEDURE FOR  
PILOTS FILING FLIGHT PLANS TO CLEVELAND-HOPKINS  
INTERNATIONAL (CLE)**

Effective Thursday, May 12, 2005. During the hours of 0700-2200 local, CLE ATCT may utilize ILS PRM and LDA PRM apchs to Runways 6L/6R as weather and arrival traffic demand dictate. Aircraft arriving from the west and north (primarily over ZABER and HIMEZ INT.) should expect ILS PRM Runway 6L, aircraft arriving from the east and south (primarily over CXR and KEATN INT.) should expect LDA PRM Runway 6R. If unable to participate in PRM apchs acft operators are required to contact FAA ATCSCC directly at 1-800-333-4286 or at 703-904-4452 prior to departure to obtain a pre-coordinated arrival time. Non-participating acft may encounter DLAS attributable to PRM flow. Pilot requirements and procedures are outlined in the U.S. Terminal Procedures Publications on the pages entitled Attention All Users of ILS Precision Runway Monitor (PRM) or LDA Precision Runway Monitor (PRM).

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**SPECIAL NORTH ATLANTIC, CARIBBEAN AND  
PACIFIC AREA COMMUNICATIONS**

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

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### **CHICAGO, ILLINOIS CHICAGO O'HARE VOR/DME**

DME unlocks can occur periodically due to ground station overload when more than 100 aircraft interrogations are received at the same time. The problem may occur when aircraft are being held in the Chicago (O'Hare) terminal area awaiting approach clearance at O'Hare. Possibilities of the problem occurring are reduced by users deactivating interrogators during nonuse or switching to an ILS DME whenever possible. Deactivating interrogators on the ground is especially important since nearby aircraft cause more overload than distant ones.

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### **MILITARY TRAINING ROUTES**

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

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### **CIVIL USE OF MILITARY FIELDS**

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing.

An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

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### **AIRCRAFT LANDING RESTRICTIONS**

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands and waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

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## CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

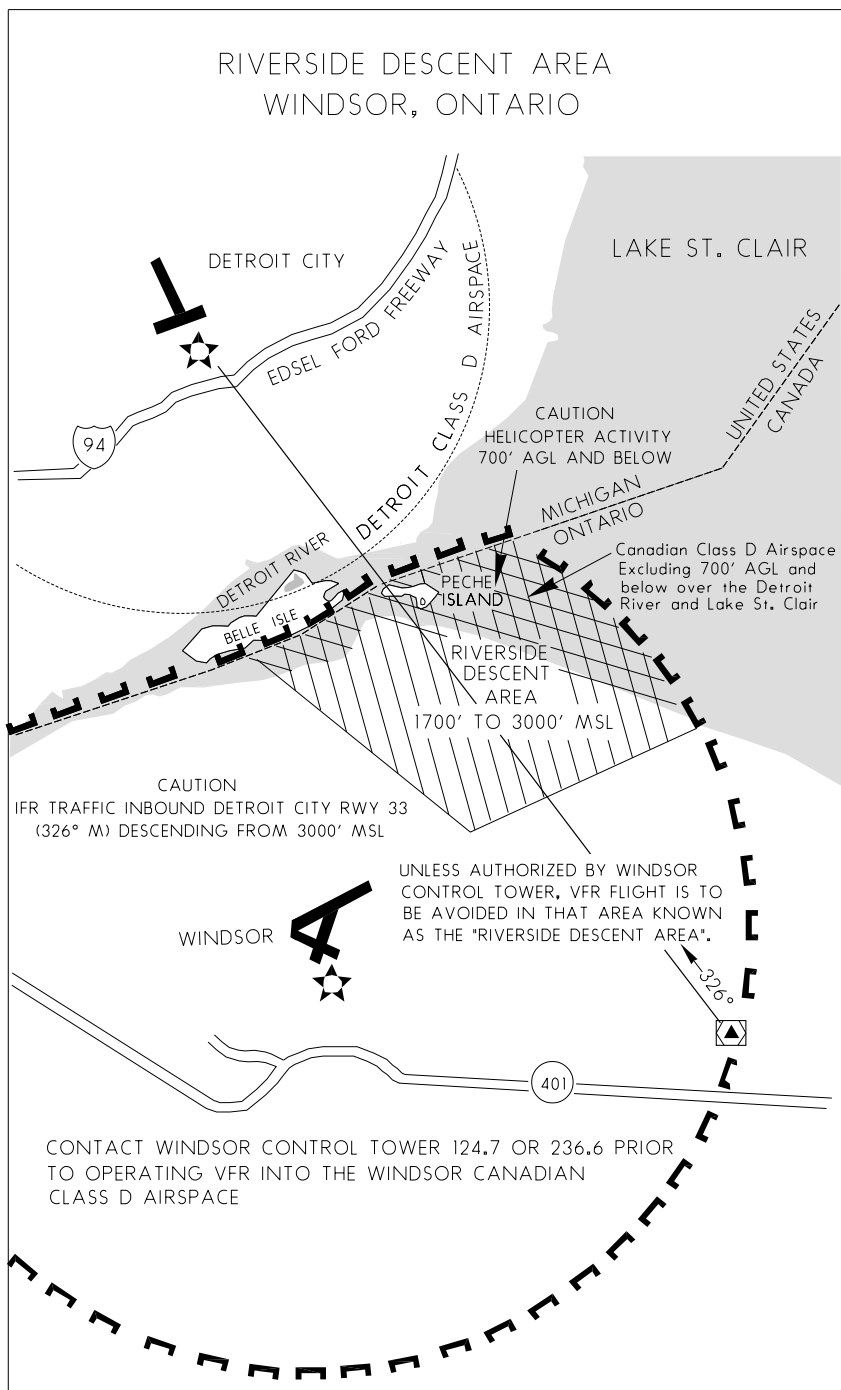
1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ) .....	08	Milwaukee, WI (MKE) .....	01L
Anchorage, AK (ANC) .....	07R	Minneapolis, MN (MSP) .....	30L
Andrews AFB, MD (ADW) .....	01L	Nashville, TN (BNA) .....	02L
Atlanta, GA (ATL) .....	09R	New Orleans, LA (MSY) .....	10
Baltimore, MD (BWI) .....	10	New York, NY (JFK) .....	04R
Bismarck, ND (BIS) .....	31	New York, NY (LGA) .....	22
Boise, ID (BOI) .....	10R	Newark, NJ (EWR) .....	04R
Boston, MA (BOS) .....	04R	Oklahoma City, OK (OKC) .....	35R
Charlotte, NC (CLT) .....	36L	Omaha, NE (OMA) .....	14R
Chicago, IL (ORD) .....	14R	Ontario, CA (ONT) .....	26L
Cincinnati, OH (CVG) .....	36C	Philadelphia, PA (PHL) .....	09R
Cleveland, OH (CLE) .....	06R	Phoenix, AZ (PHX) .....	08
Dallas/Fort Worth, TX (DFW) .....	17C	Pittsburgh, PA (PIT) .....	10L
Denver, CO (DEN) .....	35R	Reno, NV (RNO) .....	16R
Des Moines, IA (DSM) .....	31	Salt Lake City, UT (SLC) .....	34L
Detroit, MI (DTW) .....	03R	San Antonio, TX (SAT) .....	12R
El Paso, TX (ELP) .....	22	San Diego, CA (SAN) .....	09
Fairbanks, AK (FAI) .....	01L	San Francisco, CA (SFO) .....	28R
Great Falls, MT (GTF) .....	03	San Juan, PR (SJU) .....	08
Honolulu, HI (HNL) .....	08L	Seattle, WA (SEA) .....	16C
Houston, TX (IAH) .....	26L	St. Louis, MO (STL) .....	30R
Indianapolis, IN (IND) .....	05L	Tampa, FL (TPA) .....	36L
Jacksonville, FL (JAX) .....	07	Tulsa, OK (TUL) .....	36R
Kansas City, MO (MCI) .....	19R	Washington, DC (DCA) .....	01
Los Angeles, CA (LAX) .....	24R	Washington, DC (IAD) .....	01R
Memphis, TN (MEM) .....	36L	Wichita, KS (ICT) .....	01L
Miami, FL (MIA) .....	08R		

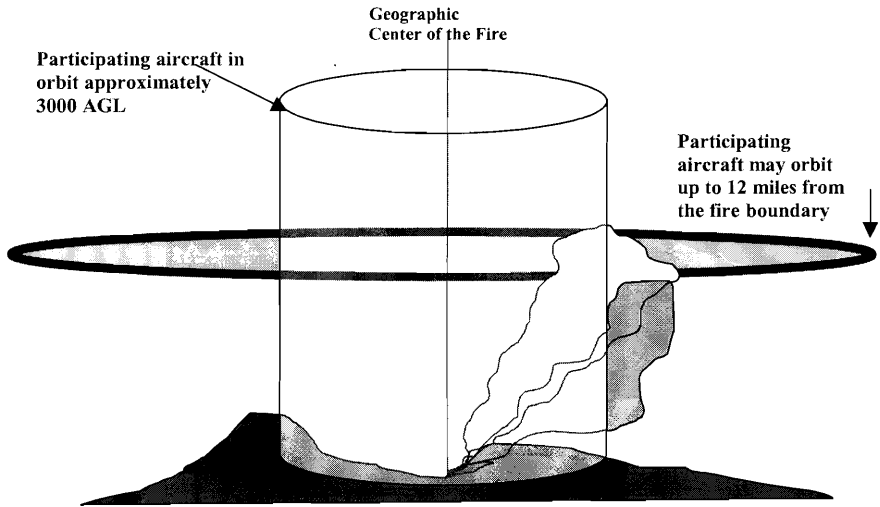
**NOTE**—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.







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**FIREFIGHTING TRAFFIC AREAS**

Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.



The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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### **LORAIN (ELYRIA), OHIO LORAIN COUNTY AIRPORT TRAFFIC RULE**

Part 93, Subpart J, requires each person piloting an airplane landing at the Lorain County Rgnl Airport shall enter the traffic pattern north of the airport and shall execute a right traffic pattern for a landing to the southwest or a left traffic pattern for a landing to the northeast. Each person taking off from the airport shall execute departure turn to the north as soon as practicable after takeoff.

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### **OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL**

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

**NOTE:** Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

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## FSS TELEPHONE NUMBERS

**Flight Service Station (FSS)** facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

**Selected remote FSS** facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

### EAST CENTRAL U.S.

**ILLINOIS:** Kankakee, Greater Kankakee (IKK)—**IKK FSS**

**MICHIGAN:** Lansing, Capital City (LAN)—**LAN FSS**

**Telephone Information Briefing Service (TIBS)** is the FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

### NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings ..... 1-800-WX-BRIEF (1-800-992-7433)

### OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) ..... 1-800-4TIBS-WX (1-877-484-2799)

Clearance Delivery Only ..... 1-888-766-8267

Lifeguard Flights Only ..... 1-877-LIF-GRD3 (1-877-543-4733)

Flights within DC SFRA & FRZ \* ..... 1-866-225-7410

\* District of Columbia Special Flight Rules Area & Flight Restricted Zone



# **KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)**

**TAF** KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT  
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA  
OVC008CB  
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR  
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

**METAR** KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB  
18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
<b>TAF</b>	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	<b>METAR</b>
<b>KPIT</b>	ICAO location indicator	<b>KPIT</b>
<b>091730Z</b>	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	<b>091955Z</b>
<b>091818</b>	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	<b>COR</b>
<b>15005KT</b>	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>Varia</u> ble); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	<b>22015G25KT</b>
<b>5SM</b>	Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in <b>TAF</b> <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	<b>3/4SM</b>
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"</u> / <u>"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Feet</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No change</u> )	<b>R28L/2600FT</b>
<b>HZ</b>	Significant present, forecast and recent weather: see table (on back)	<b>TSRA</b>
<b>FEW020</b>	Cloud amount, height and type: <u>SKy</u> Clear 0/8, <u>FEW</u> >0/8-2/8, <u>SCa</u> tered 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>Over</u> cast 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>Cumulonim</u> bus in <b>METAR</b> ; in <b>TAF</b> , only <u>CB</u> . <u>Vertical Vi</u> sibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In auto-mated <b>METAR</b> reports only, <u>CLeaR</u> for "clear below 12,000 feet"	<b>OVC010CB</b>
	Temperature: degrees Celsius; first 2 digits, temperature <u>"</u> / <u>"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	<b>18/16</b>
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; ( <u>Q</u> -hectoPascals, e.g., Q1013)	<b>A2992</b>



# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<b>WS010/31022KT</b>	In U.S. <b>TAF</b> , non-convective low-level ( $\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"Z"</u> ; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	<b>RMK</b> <b>SLP045</b> <b>T01820159</b>
<b>FM1930</b>	In <b>METAR</b> , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp</u> /dew-point in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	
<b>TEMPO 2022</b>	<u>FroM</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
<b>PROB40 0407</b>	<u>TEMPO</u> rary: changes expected for < 1 hour and in total, < half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
<b>BECMG 1315</b>	<u>PROB</u> ability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
	<u>BEC</u> oMinG: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	

**Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.**

## QUALIFIER

### Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

### Descriptor

MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing

## WEATHER PHENOMENA

### Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets

UP Unknown precipitation in automated observations

### Obscuration

BR Mist ( $\geq 5/8$ SM)	FG Fog ( $< 5/8$ SM)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust

### Other

SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "( )" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility  $\geq 10$  km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

**UNITED STATES DEPARTMENT OF COMMERCE**

**NOAA/PA 96052**

**National Oceanic and Atmospheric Administration—National Weather Service**



# FAA AND NWS

## KEY AIR TRAFFIC FACILITIES

### Air Traffic Control System Command Center

Main Number.....703-904-4400

#### RGNL AIR TRAFFIC DIVISIONS

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

#### AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

#### MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.



# KEY AIR TRAFFIC FACILITIES

## DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00 p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	407-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.



Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

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**®CHICAGO CENTER** 127.8 125.2

**H-2-5-10-12, L-12-27-28-31, A-1**  
**(KZAU)**

**Aurora** – 123.75  
**Burlington** – 135.6  
**Chicago Heights** – 132.95  
**Crown Point** – 127.8  
**Danville** – 135.75  
**Des Plaines** – 133.2 128.65 120.35  
**Downers Grove** – 135.75 127.6  
**Dubuque** – **127.775** 133.95 **125.225**  
**Ft. Wayne** – **126.325** 119.85  
**Goshen** – 133.9 135.9 127.55  
**Grand Rapids** – **126.125** 128.4  
**Hampshire** – 134.2 133.35  
**Horicon** – 135.55 **132.75** **132.225**  
**Jones** – **125.975** **120.225**  
**Kankakee** – 132.5 120.125 **118.225**  
**Lafayette** – 123.85  
**Leroy** – 119.225  
**Lone Rock** – 133.3  
**Maple Park** – 127.075  
**Milford** – **135.4** **132.5** 127.45 125.05 120.175  
**Milwaukee** – 134.75 132.3 125.1  
**Moline** – **135.825** 118.75  
**Monroe** – **133.425**  
**Muskegon** – **132.27**  
**Oshkosh** – 132.1  
**Pullman** – 128.5  
**Rockford** – **120.375**  
**Rossville** 125.375 **120.975**  
**South Bend** – **135.35**  
**Volk Fld** 125.05

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**®CLEVELAND CENTER**
**H-2-5-10-11, L-27-28-29-30-31-32, A-2**  
**(KZOB)**

**Algonac** – **134.775** 132.25 **126.525**  
**Belmont** – **135.175** **124.425** 120.4  
**Carleton** – **134.775** 119.95  
**Chardon** – 120.775  
**Detroit (North)** – **120.075**  
**Findlay** – 135.1 **127.675**  
**Flint** – 127.7 126.75  
**Holland** – **135.775** **121.175**  
**Jackson** – 134.65 127.3  
**Litchfield** – **135.725** 134.65 120.45  
**Mansfield** – 134.9 **133.375**  
**Mt Hope** – 120.6  
**Paris** – 128.15 120.6  
**Saginaw** – **133.525** 127.7  
**Sandusky** – 132.45 127.9 **119.875** **119.325**  
**Waterville** – 128.625

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**® INDIANAPOLIS CENTER – 133.425 132.775 128.375****H-5-9-10-12, L-16-25-26-27-29****(KZID)**

125.55 124.525 119.55

**Brookville – 135.8 135.125 120.575****Evansville – 132.525 128.3****Henryville – 134.275 133.05 124.775****London – 134.0 128.775 126.57 124.8 120.475****Marietta – 125.55****Merwyn – 135.575 134.7 123.925****Muncie – 120.65****New Hope – 124.625 121.175****Portsmouth – 135.575 124.225 120.275****Rosewood – 128.075****Terre Haute – 134.175 132.2****Winchester – 128.22 126.375 123.775****Zanesville – 133.775 132.825 125.075 124.45****® KANSAS CITY CENTER – 135.3****H-5-6, L-10-15-16-27, A-2****(KZKC)****Decatur – 132.1 124.3****Effingham – 135.05 133.225 124.3****Kirksville – 134.625 132.6****Marion – 125.3****Mt Vernon – 132.875 127.7****Quincy – 135.525****St Charles – 125.9 121.25****St Louis – 128.1 127.225 125.5****Vandalia – 125.725****® MINNEAPOLIS CENTER****H-2-5-10-11, L-10-12-13-14-27-28-31****(KZMP)****Central Wisconsin – 124.4****Duluth – 134.675 134.55 134.55 127.9****Eau Claire – 133.75 125.3****Escanaba – 127.65****Farmington – 133.7****Flying Cloud – 133.7 121.05****Green Bay – 125.55****Hayward – 126.45****Houghton – 127.2****Iron Mountain – 133.45 121.25****Ironwood – 133.55****La Crosse – 128.6 118.85****Mosinee – 124.4****Pellston – 134.6 132.425****Princeton – 121.05****Rhineland – 123.725 133.65****Rochester – 132.35****Saginaw – 118.05****Sawyer – 119.1****Swinns Valley – 135.7 134.85****Traverse City – 132.9****White Cloud – 132.55 120.85**



VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

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**CLEVELAND AFSS**

AKRON VOR/DME 114.4T 122.1R  
BELLAIRE VOR/DME 117.1T 122.1R  
BRIGGS VOR/DME 112.4T 122.1R  
CHARDON VOR/DME 112.7T 122.1R  
CLEVELAND RCO 122.1R 122.2 **122.35**  
DRYER VOR/DME 113.6T 122.1R  
FINDLAY VORTAC 108.2T 122.1R 122.2 **122.65**  
JEFFERSON VOR/DME 115.2T 122.1R  
MANSFIELD VORTAC 108.8T 122.1R **122.6**  
NEWCOMERSTOWN VOR/DME 111.8T 122.1R  
SANDUSKY VOR/DME 109.2T 122.1R  
WATERVILLE VOR/DME 113.1T 122.1R  
YOUNGSTOWN VORTAC 109.0T 122.1R 122.2  
ZANESVILLE VOR/DME 111.4T 122.1R 122.2 **122.5**

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**DAYTON AFSS**

ALLEN COUNTY VOR 108.4T 122.1R  
ATHENS-ALBANY RCO 122.25  
APPLETON VORTAC 116.7T 122.1R  
CINCINNATI RCO **122.4**  
COLUMBUS RCO 122.2 **122.3**  
DAYTON RCO 114.5T 122.1R 122.2 **122.55**  
DAYTON VOR/DME 114.5T 122.1R  
GALLIPOLIS RCO 121.65  
HILLSBORO RCO 122.2  
ROSEWOOD VORTAC 117.5T 122.1R  
YELLOW BUD VOR 112.5T 122.1R

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**GREEN BAY AFSS**

ASHLAND RCO 122.25  
BLACK RIVER FALLS RCO 122.5  
CHIPPEWA RCO 123.65  
DELLS VORTAC 117.0T 122.1R  
EAU CLAIRE RCO 122.65 123.6  
ESCANABA RCO 122.3  
FALLS VOR/DME 110.0T 122.1R  
FOND DU LAC RCO 122.5  
GREEN BAY RCO 122.2 122.55  
HANCOCK RCO **122.525** 123.65  
HAYWARD VOR/DME 113.4T 122.1R  
IRON MOUNTAIN VOR/DME 111.2T 122.1R  
IRONWOOD RCO 122.3  
JANESVILLE VOR/DME 114.3T 122.1R  
KENOSHA VOR/DME 109.2T 123.6R  
LA CROSSE RCO 122.2 122.35  
LONE ROCK RCO 122.35  
MACKINAC ISLAND RCO 122.35  
MADISON RCO 122.6  
MARSHFIELD RCO 122.55  
MANITOWOC VOR/DME 111.0T 122.1R  
MENOMINEE VOR/DME 109.6T 122.1R  
MILWAUKEE RCO 122.4 122.65  
MOSINEE RCO **122.525**  
NEWBERRY RCO 122.4  
OSHKOSH VORTAC 111.8T 122.1R 122.25  
PHILLIPS RCO 122.05  
PLATTEVILLE RCO 122.5  
PRAIRIE DU CHIEN RCO 122.25  
RHINELANDER VORTAC 109.2T 122.1R  
RICE LAKE RCO 122.3  
SAULT STE MARIE VOR/DME 112.2T 122.1R  
SAWYER RCO 123.6  
SCHOOLCRAFT COUNTY RCO 122.25  
SIREN VOR/DME 109.4T 122.1R  
STEVENS POINT VORTAC 110.6T 122.1R  
TIMMERMAN VOR/DME 112.5T 123.6R  
WAUSAU RCO 122.4  
WEST BEND VOR 109.8T 122.1R  
WISCONSIN RAPIDS RCO 122.45  
WOODRUFF RCO 122.6

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**KANKAKEE AFSS**

BLOOMINGTON VOR/DME 108.2T 123.6R  
BRADFORD VORTAC 114.7T 122.05R 123.6  
CHICAGO HEIGHTS VORTAC 114.2T 122.1R  
CHICAGO MEIGS RCO **122.15**  
DUPAGE VOR/DME 108.4T 122.1R 122.3  
GALESBURG VOR/DME 109.8T 122.1R  
JOLIET VORTAC 112.3T 122.1R 122.5  
KANKAKEE VOR/DME 111.6T 122.1R 122.2  
MACOMB RCO **122.15**  
MOLINE RCO **122.6**  
NEW LENOX RCO 122.5  
PEORIA RCO 122.35  
PEOTONE VORTAC 113.2T 122.05R  
POLO VOR/DME 111.2T 122.1R  
PONTIAC VOR/DME 109.6T 122.1R  
ROCKFORD VOR/DME 110.8T 122.1R 122.65  
WAUKEGAN RCO 122.55

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**LANSING AFSS**

ALPENA VORTAC 108.8T 122.1R  
 BAD AXE RCO 122.65  
 BATTLE CREEK RCO 122.2  
 BARRIEN SPRINGS RCO 121.625  
 CARLETON VORTAC 115.7T 122.1R  
 DETROIT RCO 122.2 **122.55**  
 FLINT RCO 122.3  
 GAYLORD RCO 122.55  
 GRAND RAPIDS VOR/DME 115.95T 122.1R  
 JACKSON RCO 122.2  
 KALAMAZOO VOR/DME 109.0T 122.1R  
 KEELER VOR/DME 116.6T 122.1R  
 LANSING RCO 122.2  
 LITCHFIELD VOR/DME 111.2T 122.1R  
 LUDINGTON RCO 122.45  
 MANISTEE VOR/DME 111.4T 122.1R  
 MOUNT PLEASANT RCO 122.6  
 MUSKEGON RCO 122.5  
 PECK VORTAC 114.0T 122.1R  
 PELLSTON RCO 122.2 122.3 123.6  
 PONTIAC VORTAC 111.0T 122.15R  
 PULLMAN VOR/DME 112.1T 122.1R  
 SAGINAW RCO 122.2 122.4  
 SALEM VORTAC 114.3T 122.1R  
 TRAVERSE CITY RCO 122.2 **122.65**  
 WEST BRANCH RCO 122.35  
 WHITE CLOUD VORTAC 117.6T 122.1R

**SAINT LOUIS AFSS** 122.2 122.45

BIBLE GROVE VORTAC 109.0T 122.05R  
 CENTRALIA VORTAC 115.0T 122.1R  
 CHAMPAIGN VORTAC 110.0T 122.1R 122.45  
 DANVILLE VORTAC 111.0T 122.1R  
 DECATUR VORTAC 117.2T 122.1R 122.3  
 MARION VOR/DME 110.4T 122.1R  
 MATTOON VOR/DME 109.4T 123.6R  
 MOUNT VERNON VOR/DME 113.8T 122.05R  
 QUINCY VORTAC 113.6T 122.1R 122.5  
 ROBERTS VOR/DME 116.8T 122.1R  
 SAINT LOUIS REGIONAL RCO 122.05  
 SAMSVILLE VOR/DME 116.6T 122.1R  
 SPINNER VORTAC 112.7T 122.25  
 VANDALIA VORTAC 114.3T 122.1R

**TERRE HAUTE AFSS**

CROWNPOINT RCO 123.65  
 EVANSVILLE RCO 122.65  
 FORT WAYNE RCO 122.2 122.45  
 GOSHEN VORTAC 113.7T 122.1R  
 HOOSIER VORTAC 110.2T 122.1R  
 INDIANAPOLIS RCO 122.55  
 KNOX VOR/DME 115.6T 122.1R  
 KOKOMO VORTAC 113.5T 122.1R  
 LAFAYETTE RCO 122.2 122.35  
 MUNCIE VOR/DME 114.4T 122.1R  
 NABB VORTAC 112.4T 122.1R  
 OSGOOD RCO 122.25  
 RICHMOND VORTAC 110.6T 122.1R  
 SHELBYVILLE VORTAC 112.0T 122.1R  
 SOUTH BEND RCO 122.6  
 TERRE HAUTE RCO **122.65**  
 WASHINGTON RCO 122.2



**FLIGHT STANDARDS DISTRICT OFFICES (FSDO)**

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

**ILLINOIS**

DuPage Airport  
31W775 North Avenue  
West Chicago, Illinois 60185-1056  
Telephone: 630-443-3100

Capital Airport  
1250 North Airport Drive, Suite 1  
Springfield, Illinois 62707-8417  
Telephone: 217-744-1910

9950 West Lawrence Ave., Suite 400  
Schiller Park, Illinois 60176  
Telephone: 847-928-8000

**INDIANA**

8303 W. Southern Avenue  
Indianapolis, Indiana 46241  
Telephone: 317-487-2400

1843 Commerce Drive, Suite 200  
South Bend, Indiana 46628  
Telephone: 219-245-4600

**MICHIGAN**

3196 Kraft Ave. SE, Suite 103  
Grand Rapids, Michigan 49512  
Telephone: 616-954-6657

Willow Run Airport  
8800 Beck Road  
Belleville, Michigan 48111  
Telephone: 734-487-7222

**OHIO**

Great Northern Technology Park II  
25249 Country Club Blvd.  
North Olmsted, Ohio 44070  
Telephone: 440-686-2001

Lunken Airport Executive Building  
Ground Floor  
4242 Airport Road  
Cincinnati, Ohio 45226  
Telephone: 513-979-6400

Port Columbus International Airport  
2780 Airport Drive, Suite 300  
Columbus, Ohio 43219  
Telephone: 614-255-3120

**WISCONSIN**

General Mitchell Intl Airport  
4915 S. Howell Ave.  
Milwaukee, Wisconsin 53207  
Telephone: 414-486-2920



## ROUTES

### PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.

2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).

3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.

4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.

5. Where more than one route is listed the routes have equal priority for use.

6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.

7. Intersection names are spelled out.

8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW031); or an intersection (e.g., GSW081 FITCH).

9. Where two nav aids, an intersection and a nav aid, a nav aid and a nav aid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.

10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.

11. (90–170 incl) altitude flight level assignment in hundred of feet.

12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.

13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun .....	1300–2259 local time.
Mon thru Fri .....	0701–2259 local time.
Sat .....	0701–1459 local time.

14. Use current SIDs and STARs for flight planning.

15. For high altitude routes, the portion of the routes contained in brackets [ ] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

### LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>CHICAGO METRO AREA</b>		
From Midway (MDW) or O'Hare (ORD)		
Atlanta (ATL) .....	EON V171 TTH V243 GQO V333 DALAS ATL .....	
Denver (DEN) .....	SIMMN V172 OBH V219 HCT V8 DVV .....	
Indianapolis (IND) .....	EON V399 KENLA V128 JELLS .....	
Louisville (LOU) .....	EON V171 TTH V243 IU279 CHERI .....	1100–0300
Memphis (MEM) .....	RBS V429 MWA V67 CNG V11 MIOLA .....	1600–2300
Miami (MIA) .....	EON V171 TTH V243 LGC V321 PZD V159 CTY V7	
	LAL V157 LBV V529 V35 CURVE .....	1100–0300
Pittsburgh (PIT) .....	GIJ V6 DJB V30 ACO V337 CUTTA .....	1100–0300
San Francisco (SFO) .....	SIMMN V172 PLL V158 DBQ V100 MBW V6 FMG	
	V6 .....	
Tampa (TPA) .....	EON V171 TTH V243 LGC V321 PZD V159 CTY	
	V35 ENDED .....	
	or	
	(GPS or DME/DME-IRU Equipped) EON V171 TTH	
	V243 LGC V321 PZD V159 CTY V35 ENDED .....	



Terminals	Route	Effective Times (UTC)
Tulsa (TUL) .....	MZV BRL V63 SGF V14 .....	0000-2359
Washington Natl (DCA) .....	EON V144 ESL V4 MANNE .....	1100-0300
<b>From Midway (MDW) only</b>		
Des Moines (DSM) .....	SIMMN V172 TNU .....	1100-0300
Detroit Metro-Wayne Co. (DTW) .....	GIJ V10 LFD MIZAR-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....	GIJ V10 LFD CRUX-STAR .....	
Windsor (YQG) .....		
Young (DET) .....	GIJ ELX V218 LAN SPRTN-STAR .....	
Kansas City (MKC) .....	MZV BRL V10 IRK BQS-STAR .....	1100-0300
Omaha (OMA) .....	SIMMN V172 OVR .....	0000-2359
<b>From O'Hare (ORD) only</b>		
Cleveland (CLE) .....	GIJ V6 VWV WAKEM-STAR .....	1100-0300
Des Moines (DSM) .....	SIMMN V172 TNU .....	0000-2359
Detroit Metro-Wayne Co (DTW) .....	PETTY MKG POLAR-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....		
Windsor (YQG) .....		
Young (DET) .....	MUSKY V100 ELX V218 LAN SPRTN-STAR .....	
Kansas City (MKC) .....	MZV BRL V10 IRK BQS-STAR .....	
Memphis (MEM) .....	RBS V429 MWA V67 CNG V11 MIOLA .....	0000-2359
Muskegon (MKG) .....	PETTY V216 .....	
Omaha (OMA) .....	SIMMN V172 OVR .....	0000-2359
Saginaw (MBS) .....	PETTY MKG V216 .....	
<b>From O'Hare (ORD) and North Satellite Airports</b>		
Detroit Metro-Wayne Co. (DTW) .....	(150-230 incl) PETTY MKG POLAR-STAR .....	1100-0300
<b>CINCINNATI METRO AREA (CVG, LUK)</b>		
Detroit/Wayne (DTW) .....	DQN MIZAR-STAR .....	1100-0300
Detroit Satellites:		
Ann Arbor (ARB) .....	DQN CRUX-STAR .....	1100-0300
Pontiac (PTK) .....		
Willow Run (YIP) .....	DQN CRUX-STAR .....	
Windsor (YQG) .....		
Young (DET) .....	V275 KLINE VWV VWV064 LYNTN .....	
<b>From COVINGTON (CVG) only</b>		
Atlanta (ATL) .....	V97 VXV V267 HRS V463 WOMAC .....	1100-0300
Chicago Midway (MDW) .....	V128 VHP BVT V97 CGT .....	1100-0300
Chicago O'Hare (ORD) .....	V128 VHP BVT V97 CGT V7 BEBEE .....	1100-0300
Indianapolis (IND) .....	V128 VHP .....	1100-0300
Knoxville (TYS) .....	HYK V97 .....	
Louisville (SDF) .....	CVG206 IIU055 IIU .....	1100-0300
Pittsburgh (PIT) .....	(60-170 incl) V128 YRK V44 JPU V117 WISKE	
	WISKE-STAR .....	1100-0300
<b>CLEVELAND METRO AREA (CLE, CGF, BKL, LNN, LPR)</b>		
Baltimore (BWI) .....	(90-170 incl) ACO AIR V75 MGW V44 MRB V3	
	EMI .....	1100-0300
Boston (BOS) .....	(60-170 incl) V522 ERI V270 CFB V72	
	ALB V2 GDM GDM-STAR .....	1100-0300
Buffalo (BUF) .....	(60-170 incl) V522 ERI V43 WELLA .....	
Chicago Midway (MDW) .....	(60-170 incl) SKY VWV V126 CGT .....	1100-0300
Chicago O'Hare (ORD) .....	(60-170 incl) V45 VWV V126 HALIE V340	
	BEARZ .....	1100-0300
Columbus (CMH) .....	(60-170 incl) DJB DJB173 HERAK APE035	
	APE .....	
Dayton (DAY) .....	(60-170 incl) OBRLN-DP ROD .....	
Detroit/Wayne (DTW) .....	(60-170 incl) DJB DJB314 GEMNI GEMNI-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		



Terminals	Route	Effective Times (UTC)
Willow Run (YIP) .....	(60–170 incl) DJB LLEE0-STAR .....	1100-0300
Windsor (YQG) .....	(60–170 incl) OBRLN-DP MIE MIE244 CLANG	
Young (DET) .....	CLANG-STAR .....	
Indianapolis (IND) .....	(60–170 incl) ACO V337 CUTTA .....	1100-0300
Pittsburgh (PIT) .....	(60–170 incl) V522 ERI V14 BUF V2 CLUNG .....	1100-0300
Rochester (ROC) .....	(90–170 incl) ACO AIR V75 MGW V144 ESL V4	
Washington Dulles (IAD) .....	AML .....	1100-0300
	or	
	(90–170 incl) ACO AIR V75 MGW V44 MRB AML ..	1100-0300
Washington Natl (DCA) .....	(90–170 incl) ACO AIR V75 MGW V144 ESL V4	
	AML .....	1100-0300
<b>COLUMBUS (CMH)</b>		
Cleveland (CLE) .....	(60–170 incl) V43 TVT KEATN-STAR .....	1100-0300
Pittsburgh (PIT) .....	(60–170 incl) APE V12 CTW WISKE-STAR .....	1100-0300
Toledo (TOL) .....	V493 VWV .....	1100-0300
<b>DAYTON (DAY)</b>		
Chicago Midway (MDW) .....	V55 V422 CGT .....	1100-0300
Chicago O'Hare (ORD) .....	V55 FWA V340 BEARZ .....	1100-0300
Cleveland (CLE) .....	DQN ABERZ-STAR .....	1100-0300
Detroit Metro-Wayne Co (DTW) .....	DQN MIZAR-STAR .....	1100-0300
<b>Detroit Satellites:</b>		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....	DQN CRUX-STAR .....	
Windsor (YQG) .....		
Young (DET) .....	V275 KLINE VWV VWV064 LYNTN .....	
Washington Dulles (IAD) .....	(90–170 incl) ZZV V144 ESL V4 AML .....	1100-0300
	or	
	(90–170 incl) ZZV V14 MGW V44 MRB AML .....	1100-0300
Washington Natl (DCA) .....	(90–170 incl) ZZV V144 ESL V4 AML .....	1100-0300
<b>DETROIT METRO AREA</b>		
<b>(Detroit Metro-Wayne Co &amp; Satellites)</b>		
Albany (ALB) .....	(60–170 incl) TYCOB V116 BFD V72 .....	1100-0300
Atlantic City (ACY) .....	(60–170 incl) ERRTH-DP CXR YNG V6 SEG V170	
	MXE V184 .....	1100-0300
Boston (BOS) .....	(60–170 incl) TYCOB V116 BFD V72 ALB V2	
	GDM .....	1100-0300
Buffalo (BUF) .....	(60–170 incl) TYCOB V90 DKK .....	1100-0300
Chicago Midway (MDW) .....	HARWL JXN V116 LEROY GSH CGT .....	1100-0300
Chicago O'Hare (ORD) .....	FWA-DP FWA KNOX-STAR .....	
	or	
	FWA-DP FWA WATSON (RNAV)-STAR .....	
	or	
	HARWL JXN V116 ELX V100 DEERE .....	
	or	
	GRR MKG V510 FAH BJB OBK .....	
Cleveland (CLE) .....	MAARS ACO319 HIMEZ HIMEZ-STAR .....	
Columbus (CMH) .....	CAVVS VWV FDY V279 GUNNE .....	1100-0300
Fort Wayne (FWA) .....	(60–170 incl, Props) HARWL JXN V221 .....	1100-0300
	or	
	(60–170 incl, Jets) ANNTS DXO217 FWA071 .....	1100-0300
Indianapolis (IND) .....	HARWL JXN V221 MIE V14 CLANG-STAR .....	1100-0300
Milwaukee (MKE) .....	(60–170 incl) DUNKS V170 PMM V170 PETTY .....	1100-0300
Montreal (CYUL) .....	(60–170 incl) TYCOB V116 ERI V270 ELZ V501	
	SYR MSS V203 FRANX FRANX-STAR .....	1100-0300
Pittsburgh (PIT) .....	(60–170 incl) ACO CUTTA-STAR .....	1100-0300
Rochester (ROC) .....	(60–170 incl) TYCOB YQG 098 SURLY DKK V14	
	BUF .....	1100-0300
Syracuse (SYR) .....	(60–170 incl) TYCOB V116 ERI V14 GEE V84 .....	1100-0300
Washington Natl (DCA) .....	(60–170 incl) ACO AIR V75 MGW V144 ESL V4	
	MANNE .....	1100-0300
Westchester Co (HPN) .....	(60–170 incl) TYCOB V116 ERI V270 V433 V157	
	HAARP .....	1100-0300
	or	



## PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(60–170 incl, props less than 250 kts) TYCOB V116 ERI V270 V433 V123 HAARP .....	1100–0300
<b>FORT WAYNE (FWA)</b>		
Moline (MLI) .....	V144 BDF V156 MZV .....	0000–2359
Rockford (RFD) .....	V144 SMARS V128 .....	0000–2359
<b>GREATER PEORIA RGNL (PIA)</b>		
Chicago Midway (MDW) .....	PIA PIA056 MOTIF JOT .....	
Chicago O'Hare (ORD) .....	PIA PIA035 V10 PLANO .....	
<b>INDIANAPOLIS (IND)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	(RNAV only/60–170 incl) DQN T000K MFD ABERZ ABERZ–STAR .....	
	or	
	(all others/60–170 incl) DQN MFD MFD048 ABERZ ABERZ–STAR .....	
Detroit Metro–Wayne Co (DTW) .....	FWA MIZAR–STAR .....	
	FWA CRUX–STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....	FWA CRUX–STAR .....	
Windsor (YQG) .....		
Young (DET) .....	V275 KLINE VWV VWV051 POOFE .....	
Evansville (EVV) .....	V305 .....	
Kansas City (MCK) .....	V50 SPI BQS–STAR .....	0000–2359
Pittsburgh (PIT) .....	(60–170 incl) V50 DQN V12 CTW WISKE–STAR .....	1100–0300
Springfield (SGF) .....	V11 PXV V190 .....	0000–2359
	or	
Tulsa (TUL) .....	TTH BIB V72 FAM V190 .....	0000–2359
Wichita (ICT) .....	V11 PXV V190 SGF V14 .....	0000–2359
	TTH BIB V72 ENL V234 EMP V12 .....	0000–2359
<b>MILWAUKEE (MKE)</b>		
Detroit Metro–Wayne Co (DTW) .....	(60–170 incl) SQUIB MKG POLAR–STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....		
Windsor (YQG) .....		
Young (DET) .....	GRR LAN SPRTN–STAR .....	
<b>MOLINE (MLI)</b>		
Fort Wayne (FWA) .....	V156 BDF V144 .....	0000–2359
South Bend (SBN) .....	V156 BDF V144 MAPPS V156 .....	0000–2359
<b>ROCKFORD (RFD)</b>		
Fort Wayne (FWA) .....	V128 SMARS V144 .....	0000–2359
South Bend (SBN) .....	V128 SMARS V144 MAPPS V156 .....	0000–2359
<b>SOUTH BEND (SBN)</b>		
Moline (MLI) .....	V156 MAPPS V144 BDF V156 MZV .....	0000–2359
Rockford (RFD) .....	V156 MAPPS V144 SMARS V128 .....	0000–2359
<b>SPRINGFIELD (SPI)</b>		
Chicago Midway (MDW) .....	PNT MOTIF–STAR .....	0000–2359
Chicago O'Hare (ORD) .....	PNT V227 PLANO .....	0000–2359
Springfield (SGF) .....	V50 UIN V63 SGF V14 .....	0000–2359
Tulsa (TUL) .....	V50 UIN V63 SGF V14 .....	0000–2359
<b>TERRE HAUTE (HUF)</b>		
Kansas City (MCK) .....	V50 SPI BQS–STAR .....	0000–2359
Springfield (SGF) .....	V7 PXV V190 .....	0000–2359
Tulsa (TUL) .....	V7 PXV V190 SGF V14 .....	0000–2359

## SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Low Altitude IFR single–direction route for traffic overflying ZOB ARTCC landing at ORD:		
Westbound .....	JXN V116 ELX V100 DEERE .....	
Low Altitude IFR single–direction route for traffic overflying ZOB ARTCC landing at ORD:		
Westbound .....	OXI KNOX–STAR .....	



## HIGH ALTITUDE

Effective  
Times  
(UTC)

## Terminals

## Route

## AKRON (CAK)

Detroit/Wayne (DTW)..... DJB DJB314 GEMNI GEMNI-STAR .....

## CHICAGO METRO AREA (ORD, MDW)

Atlanta (ATL)..... (RNAV only) GUIDO J73 PXV BNA ERLIN  
(RNAV)-STAR .....

or

(all others) GUIDO J73 PXV BNA ROME-STAR.....

Baltimore (BWI) ..... GIJ J146 J34 DJB J162 MGW EMI-STAR .....

Birmingham (BHM) ..... EON DNB BNA VUZ .....

Boca Raton (BCT) ..... (GPS or DME/DME-IRU equipped) EON DNV TTH  
SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....

Boston (BOS) ..... ELX CRL J554 JHW J82 ALB GDM GDM-STAR .....

Bristol/Johnson/Kingsport (TRI) ..... EON DNV VHP J24 FLM HMV .....

Charleston (CHS) ..... EON DNV VHP J24 FLM .....

Charleston (CRW)..... EON DNV VHP J24 FLM HVQ .....

Charlotte (CLT) ..... EON DNV VHP J24 FLM JOHNS (RNAV)-STAR .....

Chattanooga (CHA)..... EON DNV.....

Cincinnati (CVG)..... (RNAV only) EON DNV CEGRM (RNAV)-STAR .....

or

(all others) EON DNV SHELBYVILLE-STAR .....

Columbia (CAE)..... EON DNV VHP J24 FLM .....

Columbus (CMH)..... GIJ GIJ092036 FWA J178 APE .....

Dallas/Fort Worth (DFW) ..... RBS STL RZC FSM BYP .....

Dayton (DAY) ..... GIJ GIJ092036 FWA ROD DQJ .....

Denver (DEN)..... IOW DSM J10 LBF SAYGE-STAR .....

or

PLL PLL275065 FOD J94 ONL J114 SNY

LANDR-STAR .....

Detroit/Wayne (DTW)..... PETTY MKG POLAR-STAR .....

Evansville (EVV) ..... GUIDO .....

Fort Lauderdale (FLL)..... GUIDO J73 SZW J43 PIE FORTL-STAR .....

or

EON DNV TTH SWAPP ATL J89 HITTR PIE

FORTL-STAR .....

or

(GPS or DME/DME-IRU equipped) EON DNV TTH

SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....

Greensboro (GSO)..... EON DNV VHP J24 FLM .....

Greer (GSP) ..... EON DNV VHP J24 FLM SOT SUG V185 UNMAN ...

Harrisburg (MDT)..... GIJ J146 J34 DJB J518 J152 HAR .....

Huntsville (HSV)..... EON DNV.....

Jacksonville (JAX)..... EON DNV TTH SWAPP ATL AMG ALMA-STAR .....

Kennedy (JFK)..... ELX CRL J554 JHW J70 LVZ LENDY-STAR .....

Knoxville (TYS)..... EON DNV VHP J24 FLM J43 XVV .....

La Guardia (LGA)..... GIJ J146 MIP MIP-STAR .....

Memphis (MEM)..... RBS FAM ARG GQE-STAR .....

or

GUIDO J73 PXV WLDER-STAR .....

Miami (MIA)..... GUIDO J73 SZW J43 PIE CYY-STAR .....

or

(Turbojets-GPS or DME/DME-IRU equipped) EON

DNV TTH SWAPP ATL SZW SSCOT

(RNAV)-STAR .....

Myrtle Beach (MYR)..... EON DNV VHP J24 FLM .....

Nashville (BNA)..... EON DNV TTH HEHAW-STAR .....

Newark (EWR)..... ELX CRL J584 SLT FQM-STAR .....

Norfolk (ORF)..... EON DNV VHP J24 MOL TERKS-STAR .....

Oakland (OAK) ..... PLL PLL275065 FOD J94 ONL J148 OAL MOD .....

or

PLL PLL275065 FOD J94 LCU J158 MVA.....

1500-0400



Terminals	Route	Effective Times (UTC)
Orlando Exec (ORL) .....	EON DNV TTH BWG GQO ATL J89 OTK LEESE-STAR .....	
Orlando Intl (MCO) .....	EON DNV TTH SWAPP ATL J89 OTK LEESE-STAR ..	
Philadelphia (PHL) .....	GIJ J146 CXR EWC JST BUNTS-STAR .....	
Phoenix (PHX) .....	MZV STJ J18 FTI J19 ZUN BUNTR-STAR .....	1200-0400
	or	
	IOW J192 PWE J64 PUB ALS J102 .....	
Pittsburgh (PIT) .....	GIJ J146 J34 DJB ACO V337 CUTTA .....	
Pottstown (PTW) .....	GIJ J146 CXR EWC JST .....	
Raleigh-Durham (RDU) .....	EON DNV VHP J24 FLM BKW ROA SBV-STAR .....	
Richmond (RIC) .....	EON DNV VHP J24 FLM MOL FAK .....	
Roanoke (ROA) .....	EON DNV VHP J24 FLM .....	
St. Petersburg-Clearwater (PIE) .....	GUIDO J73 SZW DARBS-STAR .....	
San Francisco (SFO) .....	PLL PLL275065 FOD J94 FMG ILA PYE .....	1500-0400
San Jose (SJC) .....	PLL PLL275065 FOD J94 FMG HYP-STAR .....	
	or	
	DBQ J94 LCU HYP-STAR .....	1500-0400
Sarasota/Bradenton (SRQ) .....	GUIDO J73 PXV J73 SZW CLAMP-STAR .....	
Tampa (TPA) .....	GUIDO J73 PXV J73 SZW DARBS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW FOXX (RNAV)-STAR .....	
Toledo (TOL) .....	GIJ J146 PLAIN VWV .....	
Washington Dulles (IAD) .....	GIJ J146 J34 BUCKO-STAR .....	
Washington Natl (DCA) .....	GIJ J146 J34 SHAAR WZRRD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) GIJ J146 J34 BUCKO ELDEE (RNAV)-STAR .....	
	or	
	GIJ J146 J34 SHAAR ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(all others) EON DNV TTH SWAPP ATL OTK WLACE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J43 WLACE (RNAV)-STAR .....	
	or	
	(all others) ORD EON DNV TTH SWAPP ATL OTK WLACE (RNAV)-STAR .....	
Windsor Locks (BDL) .....	ELX CRL J554 JHW J82 WILET RKA292 RKA SWEDE-STAR .....	
<b>CHICAGO Midway (MDW) only</b>		
Albany (ALB) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 .....	
Allentown (ABE) .....	LEWKE GIJ J146 FJC .....	
Atlanta (ATL) .....	CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR ..	
	or	
	CMSKY CARYN CYBIL PXV BNA ERLIN (RNAV)-STAR .....	
Baltimore (BWI) .....	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR .....	
Birmingham (BHM) .....	CMSKY CARYN CYBIL PXV .....	
Bristol/Johnson/Kingsport (TRI) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) GUIDO J73 SZW PRRIE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB GARDNER-STAR .....	



Terminals	Route	Effective Times (UTC)
Buffalo (BUF) .....	LEWKE GIJ EVOTE NELLs KEEHO DKK .....	
Charleston (CHS, CRW) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Charlotte (CLT) .....	EARND ELANR EMMLY ETAME FLM JOHNS (RNAV)-STAR .....	
Chattanooga (CHA) .....	DENNT DARCY DREGS DONVE BWG .....	
Cincinnati (CVG) .....	DENNT DARCY DNV CEGRM (RNAV)-STAR .....	
	or	
	DENNT DARCY DNV SHB-STAR .....	
Cleveland (CLE) .....	ELX CRL HIMEZ-STAR .....	
	or	
	LEWKE GIJ CRL HIMEZ-STAR .....	
Columbia (CAE) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Columbus (CMH) .....	LEWKE GIJ SEWTO FWA GUNNE-STAR .....	
Dallas/Fort Worth (DFW) .....	ACITO ADELL ARLYN STL RZC FSM BONHAM-STAR .....	
Detroit Metro-Wayne Co (DTW) .....	GIJ LFD MIZAR-STAR .....	
Detroit Metro Area (ARB, PTK, YIP) .....	GIJ LFD CRUX-STAR .....	
Detroit Metro Area (DET, CYQG) .....	GIJ LAN SPRTN-STAR .....	
Evansville (EVV) .....	DENNT DARCY DREGS DONVE .....	1200-0400
Fort Lauderdale (FLL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	or	
	EON DNV TTH IIU J99 VXX J46 AMG TAY JINGL (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
Fort Myers (RSW) .....	CMSKY CARYN CYBIL PXV J73 SZW TYNEE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW TYNEE (RNAV)-STAR .....	
Greensboro (GSO) .....	EARND ELANR EMMLY ETAME FLM PSK SMOKN-STAR .....	
Greenville-Spartanburg (GSP) .....	EARND ELANR EMMLY ERECO IIU .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Huntsville (HSV) .....	DENNT DARCY DREGS DONVE BWG .....	
Islip (ISP) .....	LEWKE GIJ EVOTE NELLs KEEHO JHW J70 STW LENDY .....	
Jacksonville (JAX) .....	DENNT DARCY DREGS DUMGE SWAPP AMG ALMA-STAR .....	
La Guardia (LGA) .....	LEWKE GIJ J146 ETG MILTON-STAR .....	
Memphis (MEM) .....	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR ... or	
	CMSKY CARYN CYBIL PXV WLDER-STAR .....	
Miami (MIA) .....	DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL SZW J86 OTK SSCOT (RNAV)-STAR .....	



# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	or (Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR.....	
	or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IJU J99 VXV J46 AMG TAY SSCOT (RNAV)-STAR.....	
	or EON DNV TTH SWAPP ATL SZW J43 PIE CYPRESS-STAR .....	
Minneapolis (MSP) .....	BAE EAU-STAR .....	1200-0400
Manchester (MHT).....	LEWKE GIJ EVOTE NELS KEEHO JHW J82 ALB EEN.....	
Nashville (BNA).....	CMSKY CARYN CYBIL PXV CCT HEHAW-STAR .....	
Newark (EWR).....	LEWKE GIJ EVOTE NELS KEEHO J584 SLT FQM WILLIAMSPORT-STAR .....	
New Orleans (MSY) .....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB RYTHM-STAR .....	
Norfolk (ORF).....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR .....	
Orlando (MCO/ORL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR .....	
	or DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK LEESE-STAR.....	1100-0400
Phoenix (PHX).....	MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR.....	1200-0400
	or MZV LMN J64 HLC LAA J102 GUP EAGUL (RNAV)-STAR.....	
Philadelphia (PHL).....	LEWKE GIJ J146 CXR EWC JST BUNTS-STAR .....	
Pittsburgh (PIT).....	LEWKE GIJ OTENS ANEWA RIEKE DJB ACO CUTTA-STAR .....	
Providence (PVD) .....	LEWKE GIJ EVOTE NELS KEEHO JHW J82 MEMMS J522 HNK TEDDY .....	
Raleigh/Durham (RDU) .....	EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR .....	
Richmond (RIC).....	EARND ELANR ETAME EMEGE FLM J24 FAK .....	
Rochester (ROC).....	LEWKE GIJ EVOTE NELS KEEHO DKK BUF .....	
Saint Petersburg/Clearwater (PIE).....	CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR.....	
Sarasota/Bradenton (SRQ) .....	CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR .....	
Tampa (TPA).....	CMSKY CARYN CYBIL PXV J73 SZW FOOXX (RNAV)-STAR.....	
	or CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR.....	
Teterboro (TEB).....	LEWKE GIJ EVOTE NELS KEEHO JHW J70 LVZ WILKES BARRE-STAR .....	
Trenton (TTN) .....	LEWKE GIJ J146 CXR EWC JST BUNTS-STAR .....	
Washington Dulles (IAD) .....	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or (GPS or DME/DME-IRU equipped) LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Washington Natl (DCA) .....	(GPS or DME/DME-IRU equipped) GIJ J146 J34 BUCKO ELDEE (RNAV)-STAR.....	
	or LEWKE GIJ OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR .....	
	or (GPS or DME/DME-IRU equipped) LEWKE GIJ OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)-STAR.....	
White Plains (HPN) .....	LEWKE GIJ EVOTE NELS KEEHO JHW ITH DNY VALRE-STAR .....	



Terminals	Route	
Windsor Locks (BDL) .....	LEWKE GIJ EVOTE NELLs KEEHO JHW J82 WILET SWEDE-STAR .....	
<b>CHICAGO O'Hare (ORD) only</b>		
Akron (CAK) .....	MOBLE ADIME OTENS VWV MFD V8 DALTS .....	
Albany (ALB) .....	EBAKE WISMO POSTS PADDE SVM DKK .....	
Allentown (ABE) .....	MOBLE ADIME GERBS J146 MIP .....	
Andrews AFB (ADW) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR .....	
Atlanta (ATL) .....	CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR .. or CMSKY CARYN CYBIL PXV BNA ERLIN (RNAV)-STAR .....	
Atlantic City (ACY) .....	MOBLE ADIME GERBS J146 CXR EWC JST J152 HAR SIE .....	
Baltimore (BWI) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR .....	
Bedford (BED) .....	EBAKE WISMO POSTS PADDE SVM DKK ALB GDM V431 LOBBY .....	
Birmingham (BHM) .....	CMSKY CARYN CYBIL PXV .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) GUIDO J73 SZW PRRIE (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 PRRIE (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	EBAKE WISMO POSTS PADDE SVM DKK ALB GARDNER-STAR .....	
Bristol/Johnson/Kingsport (TRI) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Buffalo (BUF) .....	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK .....	
Burlington (BTV) .....	EBAKE WISMO POSTS PADDE SVM DKK SYR J29 LAGGS .....	
Charleston (CHS, CRW) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Charlotte (CLT) .....	EARND ELANR EMMLY ETAME FLM JOHNS (RNAV)-STAR .....	
Chattanooga (CHA) .....	DENNT DARCY DREGS DONVE BWG .....	
Cincinnati (CVG) .....	DENNT DARCY DNV CEGRM (RNAV)-STAR .....	
	or DENNT DARCY DNV SHELBYVILLE-STAR .....	
Cleveland (CLE) .....	DUFEE ELX HIMEZ-STAR .....	
Columbia (CAE) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Columbus (CMH) .....	MOBLE ADIME SEWTO FWA GUNNE-STAR .....	
Dallas/Fort Worth (DFW) .....	ACITO ADELL ARLYN STL RZC FSM BONHAM-STAR .....	
Denver (DEN) .....	IOW DSM J10 LBF SAYGE-STAR .....	
	or DBQ J94 ONL J114 SNY LANDR-STAR .....	
Detroit Metro-Wayne Co (DTW) .....	PETTY MKG POLAR-STAR .....	
Detroit Metro Area (DET, CYQG, PTK, YIP, ARB) .....	PETTY GRR LAN SPRTN-STAR .....	1200-0400
Evansville (EVV) .....	DENNT DARCY DREGS DONVE .....	
Fort Lauderdale (FLL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	or DENNT DARCY DREGS SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	(GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J46 AMU TAY JINGL (RNAV)-STAR ..	
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) CMSKY CARYN CYBIL PXV J73 SZW TYNEE (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW TYNEE (RNAV)-STAR .....	
Greensboro (GSO) .....	EARND ELANR EMMLY ETAME EMEGE FLM PSK SMOKN-STAR .....	



Effective  
Times  
(UTC)

Terminals	Route	
Greenville/Spartanburg (GSP).....	EARND ELANR EMMLY ERECO IIU .....	
Harrisburg (MDT).....	MOBLE ADIME GERBS J146 CXR EWC HAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Huntsville (HSV).....	DENNT DARCY DREGS DONVE BWG .....	
Hyannis (HYA).....	EBAKE WISMO POSTS PADDE SVM DKK ALB ENE LFV .....	
Indianapolis (IND) .....	EARND ELANR EMMLY JAKKS .....	
Jacksonville (JAX).....	DENNT DARCY DREGS DUMGE SWAPP ATL AMG ALMA-STAR.....	
Kennedy (JFK).....	DUFEE ELX HAAKK DOXXY SOSIC JHW J70 LVZ LENDY-STAR .....	
Knoxville (TYS).....	EARND ELANR EMMLY ETAME EMEGE J43 VXV ...	
La Guardia (LGA).....	MOBLE ADIME GERBS J146 ETG MILTON-STAR ...	
Louisville (LOU) .....	DENNT DARCY DREGS DUMGE CHERI .....	
Manchester (MHT).....	EBAKE WISMO POSTS PADDE SVM DKK ALB EEN .	
Memphis (MEM).....	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR ... or	
	CMSKY CARYN CYBIL PXV WLDER-STAR .....	
Miami (MIA).....	DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR.....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 SSCOT (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J46 AMG TAY SSCOT (RNAV)-STAR.....	
	or	
	EON DNV TTH SWAPP ATL SZW J43 PIE CYY-STAR .....	
Minneapolis (MSP) .....	PLL PLL275065 ALO KASPR-STAR .....	1200-0400
Nashville (BNA).....	CMSKY CARYN CYBIL PXV CCT HEHAW-STAR .....	
Niagara Falls (IAG) .....	EBAKE WISMO POSTS PADDE SVM YXU .....	
Newark (EWR).....	DUFEE ELX HAAKK DOXXY SOSIC KEEHO J584 SLT FQM WILLIAMSPORT-STAR .....	
New Orleans (MSY) .....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB RHYTHM-STAR .....	
	or	
	EARND ELANR EMMLY ERECO IIU RYANS .....	
Norfolk (ORF).....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR .....	
Newburgh (SWF).....	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY V483 FILPS .....	
New Haven (HVN).....	DUFEE ELX HAAKK DOXXY SOSIC JHW RKA DENNA-STAR.....	



Terminals	Route	Effective Times (UTC)
Orlando (MCO/ORL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR .....	
	or	
	DENNT DARCY DREGS DUMGE SWAPP ATL LEESE-STAR .....	
	or	
	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK LEESE-STAR .....	1100-0400
Philadelphia (PHL) .....	MOBLE ADIME GERBS J146 CXR EWC JST BUNTS-STAR .....	
Phoenix (PHX) .....	MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR .....	1200-0400
	or	
	MZV LMN J64 HLC LAA J102 GUP EAGUL (RNAV)-STAR .....	
Pittsburgh (PIT) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB ACO CUTTA-STAR .....	
Portland (PWM) .....	EBAKE WISMO POSTS PADDE SVM DKK ALB CON PARSO .....	
	or	
	MOBLE ADIME GERBS J146 CXR EWC JST SIE .....	
Providence (PVD) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW J82 MEMMS J522 HNK TEDDY-STAR .....	
Raleigh/Durham (RDU) .....	EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR .....	
Richmond (RIC) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 FAK .....	
Roanoke (ROA) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Rochester (ROC) .....	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK BUF .....	
Saint Petersburg/Clearwater (PIE) .....	CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR .....	
	or	
	MOBLE ADIME GERBS J146 CXR EWC JST SIE .....	
San Juan (TJSJ) .....	CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR .....	
Sarasota/Bradenton (SRQ) .....	EBAKE WISMO POSTS PADDE SVM DKK .....	
Syracuse (SYR) .....	CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR .....	
	or	
	CMSKY CARYN CYBIL PXV J73 SZW FOXX (RNAV)-STAR .....	
Washington Dulles (IAD) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Washington Natl (DCA) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 BUCKO BUCKO-STAR .....	
	or	
	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR .....	
	or	
	(GPS OR DME/DME-IRU equipped) MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)-STAR .....	
White Plains (HPN) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY VALRE-STAR .....	
Wilkes-Barre/Scranton (AVP) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW J106 LVZ ..	
Windsor Locks (BDL) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW J82 WILET SWEDE-STAR .....	
<b>CINCINNATI (CVG)</b>		
Albany (ALB) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB .....	
Allentown (ABE) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST HAR .....	



Terminals	Route	Effective Times (UTC)
Atlanta (ATL) .....	(RNAV only) BLUEGRASS-DP BWG ERLIN (RNAV)-STAR .....	
	or	
Baltimore (BWI) .....	(all others) BLUEGRASS-DP BWG ROME-STAR.... V128 YRK HVQ J8 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) V128 YRK HVQ J8 CSN RAVNN (RNAV)-STAR .....	
Birmingham (BHM) .....	BLUEGRASS-DP TRFWA LVT SYI VUZ .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR .....	
Chicago O'Hare (ORD) .....	(Advanced Nav only) MIE MZZ ROYKO-STAR .....	
	or	
	(Non-Advanced Nav only) DQN FWA KNOX-STAR ..	
	or	
Dallas/Fort Worth (DFW) .....	DQN FWA WATSN (RNAV)-STAR .....	
Fort Lauderdale (FLL) .....	IU PVX J131 LIT BYP .....	
	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO OTK JINGL (RNAV)-STAR .....	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL J89 HITTR J75 FORTL-STAR .....	
Fort Myers (FMY) .....	(Turbojets-GPS or DME/DME-IRU equipped) HYK VXV J43 SZW TYNEE (RNAV)-STAR .....	
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) HYK VXV J43 SZW TYNEE (RNAV)-STAR .....	1100-0300
Harrisburg (MDT) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST HAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Jackson (JAN) .....	BLUEGRASS-DP TRFWA LVT SYI VUZ JAN .....	
La Guardia (LGA) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB MILTON-STAR .....	1000-1800
Manchester (MHT) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB ALB EEN .....	
Marco Island (MKY) .....	HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO SZW SSCOT (RNAV)-STAR .....	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR .....	
Mobile (MOB) .....	BLUEGRASS-DP TRFWA LVT SYI VUZ SJI .....	
Naples (APF) .....	HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
Newark (EWR) .....	ROD J29 J584 SLT FQM-STAR .....	
Newburg (SWF) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK DNY V483 FILPS .....	
New Orleans (MSY) .....	BLUEGRASS-DP TRFWA LVT SYI VUZ J22 MEI RYTHM-STAR .....	
Orlando Exec (ORL) .....	HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300



Terminals	Route	Effective Times (UTC)
	or (GPS or DME/DME-IRU equipped) HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO) .....	HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST BUNTS-STAR .....	
Phoenix (PHX) .....	FAM J78 ABQ J18 .....	
	or FAM J78 IRW J74 SJN J18 .....	
Portland (PWM) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 ALB ENE .....	
Providence (PVD) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK TEDDY-STAR .....	
Sarasota/Bradenton (SRQ) .....	HYK VXV J43 SZW CLAMP-STAR .....	
Tampa (TPA) .....	HYK VXV J43 SZW DARBS-STAR .....	
	or (GPS or DME/DME-IRU equipped) HYK VXV J43 SZW FOXXX (RNAV)-STAR .....	
Washington Dulles (IAD) .....	V128 YRK HVQ ROYL-STAR .....	
	or V128 YRK HVQ SHNON (RNAV)-STAR .....	
Washington Natl (DCA) .....	V128 YRK HVQ WZRRD-STAR .....	
	or V128 YRK HVQ ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(GPS OR DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO OTK WLACE ....	
	or (GPS or DME/DME-IRU equipped) BLUEGRASS-DP HYK VXV J43 ATL J89 OTK WLACE .....	
Wilkes Barre/Scranton (AVP) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB LVZ .....	
Windsor Locks (BDL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB RKA SWEDE SWEDE-STAR .....	
<b>From LUNKEN (LUK) only:</b>		
Albany (ALB) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB .....	
Boston (BOS) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR .....	
La Guardia (LGA) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB MILTON-STAR .....	1000-1800
Manchester (MHT) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB ALB EEN .....	
Newburgh (SWF) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK DNV V483 FILPS .....	
Philadelphia (PHL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST BUNTS-STAR .....	
Providence (PVD) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK TEDDY-STAR .....	
Portland (PWM) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 ALB ENE .....	
Wilkes Barre/Scranton (AVP) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB LVZ .....	
Windsor Locks (BDL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB RKA SWEDE SWEDE-STAR .....	
<b>CLEVELAND METRO (CLE, CGF, BKL, LNN, LPR)</b>		
Atlanta (ATL) .....	(RNAV only) DJB DJB173 HERAK APE035 APE J186 SOT ODF FLCON (RNAV)-STAR .....	
	or (all others) DJB DJB173 HERAK APE035 APE J186 SOT ODF WHINZ-STAR .....	



Effective  
Times  
(UTC)

Terminals	Route
Battle Creek (BTL) .....	AMRST-DP VWV .....
Birmingham (BHM) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY PRRIE (RNAV)-STAR .....
Charleston (CHS) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Charleston (CRW) .....	DJB DJB173 HERAK APE035 APE .....
Charlotte (CLT) .....	DJB DJB173 HERAK APE035 APE HVQ HMV JOHNS (RNAV)-STAR .....
Chicago Midway (MDW) .....	AMRST-DP VWV GSH GSH-STAR .....
Chicago O'Hare (ORD) .....	AMRST-DP VWV ZANLA WATSON (RNAV)-STAR .... or AMRST-DP VWV OXI KNOX-STAR .....
Chicago Rockford (RFD) .....	ALPHE-DP ALPHE J70 PMM .....
Cincinnati (CVG) .....	(RNAV only) DJB HERAK APE TIGRR (RNAV)-STAR . or (all others) DJB DJB173 HERAK APE035 APE CINCE-STAR .....
Dallas/Fort Worth (DFW) .....	OBRNL-DP RID RID234/40 PXV LIT BONHAM-STAR .....
Denver (DEN) .....	AMRST-DP VWV GSH .....
Elkhart (EKM) .....	AMRST-DP VWV GSH .....
Fort Lauderdale (FLL) .....	DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE FORTL-STAR .....
	or (GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 JINGL (RNAV)-STAR .....
Fort Myers (FMY) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW TYNEE (RNAV)-STAR .....
Fort Myers (RSW) .....	(GPS OR DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW TYNEE (RNAV)-STAR .....
Fort Wayne (FWA) .....	OBRNL-DP FWA .....
Grand Rapids (GRR) .....	(RNAV only) ALPHE-DP ALPHE .....
Greensboro (GSO) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) OBRNL-DP RID RID234/40 PXV LIT J180 SWB ROKIT (RNAV)-STAR .....
	or (Non-advanced NAV only) OBRNL-DP RID RID234/40 PXV LIT J180 SWB DAS-STAR .....
Houston (IAH) .....	(Non-advanced NAV only) OBRNL-DP RID RID234/40 PXV LIT J80 SWB DAS-STAR .....
	or (Turbojets-GPS or DME/DME-IRU equipped) OBRNL-DP RID234/40 PXV LIT J180 SWB TXMEX (RNAV)-STAR .....
Jacksonville (JAX) .....	DJB DJB173 HERAK APE035 APE J83 SPA J85 AMG ALM-STAR .....
Kalamazoo/Battle Creek (AZO) .....	AMRST-DP VWV .....
Kansas City (MCI) .....	OBLRN-DP VHP J80 SPI BRAYMER-STAR .....
Kennedy (JFK) .....	FAILS V522 ERI JHW J70 LVZ LENDY-STAR .....
La Guardia (LGA) .....	V522 FAILS V188 JFN ETG MIP-STAR .....
Knoxville (TYS) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Las Vegas (LAS) .....	OBRNL-DP VHP STL .....
	or AMRST-DP VWV GSH .....
Lewisburg (LWB) .....	DJB DJB173 HERAK APE035 APE .....
Lexington (LEX) .....	OBRNL-DP ROD CVG CLEGG-STAR .....
Little Rock (LIT) .....	OBLRN-DP RID RID234/40 PXV .....
Los Angeles (LAX) .....	AMRST-DP VWV GSH .....
Louisville (SDF) .....	OBRNL-DP ROD CVG REDSTONE-STAR .....



Terminals	Route	Effective Times (UTC)
Minneapolis (MSP) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM BAE EAU-STAR .....	
	or	
	AMRST-DP CRL J34 BAE EAU-STAR .....	
Madison (MSN) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM .....	
Marco Island (MKY) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW PIKKR (RNAV)-STAR .....	
	or	
	DJB DJB200 APE021 APE J186 J91 ATL J89 J75 TEPEE ZEILR-STAR .....	
Memphis (MEM) .....	OBRLN-DP RID RID234/40 PXV WLDER-STAR .....	
Miami (MIA) .....	DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE CYPRESS-STAR .....	
	or	
	(/E/G/R/J/L/Q only) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 RSW DEEDS (RNAV)-STAR .....	
Milwaukee (MKE) .....	AMRST-DP CRL CRL316/75 MKG V2 SUDDS .....	
Myrtle Beach (MYR) .....	DJB DJB173 HERAK APE035 APE .....	
Naples (APF) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW PIKKR (RNAV)-STAR .....	
Nashville (BNA) .....	OBRLN-DP IIU GUITR-STAR .....	
Newark (EWR) .....	V522 J584 SLT FQM-STAR .....	
New Orleans (MSY) .....	OBRLN-DP RID IIU MCB RYTHM-STAR .....	
Orlando (ORL) .....	(RADAR and DME required) DJB DJB200 APE021 APE J83 SPA CAE SAV OMN CORLL-STAR .....	1100-0400
Orlando (MCO) .....	DJB DJB173 HERAK APE035 APE J83 SPA CAE SAV OMN BITHO-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
Palwaukee (PWK) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM OBK .....	
Philadelphia (PHL) .....	ACO ACO145 J518 J152 HAR V210 BUNTS .....	
Phoenix (PHX) .....	OBRLN-DP VHP STL .....	
	or	
	AMRST-DP VWV GSH .....	
Raleigh/Durham (RDU) .....	DJB DJB173 HERAK APE035 APE HVQ BKW ROA SOUTH- BOSTON-STAR .....	
San Antonio (SAT) .....	OBRLN-DP RID RID234/40 PXV J131 LIT J101 LFK MARCS-STAR .....	
San Francisco (SFO) .....	AMRST-DP VWV GSH .....	
St. Louis (STL) .....	OBRLN-DP VHP VANDALIA-STAR .....	
Sarasota/Bradenton (SRQ) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW CLAMP-STAR .....	
Seattle/Tacoma (SEA) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM .....	
	or	
	(RNAV only) ALPHE-DP ALPHE J34 BAE .....	
South Bend (SBN) .....	AMRST-DP VWV GSH .....	
Tampa (TPA) .....	DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW DARBS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW FOXXX (RNAV)-STAR .....	
Toledo (TOL) .....	AMRST-DP VWV .....	
Toronto (CYYZ) .....	FAILS V443 DOGGS YXU V098 YWT YWT-STAR .....	
West Chicago/Dupage (DPA) .....	AMRST-DP VWV EON JOT .....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY WLACE .....	
	or	
	(all others) DJB DJB173 HERAK APE035 APE J83 SPA TAY WLACE (RNAV)-STAR .....	
Wilmington (ILN) .....	DJB DJB173 HERAK APE035 APE .....	
<b>COLUMBUS (CMH)</b>		
Dallas/Fort Worth (DFW) .....	DQN CVG PXV J131 LIT BYP .....	



Terminals	Route	Effective Times (UTC)
Detroit/Wayne (DTW).....	DJB DJB314 GEMNI GEMNI-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
La Guardia (LGA) .....	HLG ETG MIP-STAR .....	
Miami (MIA) .....	J83 SPA J85 TAY J75 HITTR PIE CYY-STAR.....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J83 SPA J85 TAY SSCOT (RNAV)-STAR.....	
Newark (EWR) .....	DJB J29 J584 SLT FQM-STAR.....	
Washington (IAD) .....	APE APE100 AIR280 AIR J34 SHAAR ROYIL-STAR or (GPS or DME/DME-IRU equipped) APE APE100 AIR280 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Washington (DCA) .....	APE APE100 AIR280 AIR J34 SHAAR WZRRD-STAR .....	
	or APE APE100 AIR280 AIR J34 SHAAR ELDEE (RNAV)-STAR .....	
<b>DAYTON (DAY)</b>		
Atlanta (ATL) .....	(RNAV only) IIU BWG ERLIN (RNAV)-STAR .....	
	or IIU BWG ROME-STAR.....	
Boca Raton (BCT).....	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 TAY PRRIE (RNAV)-STAR .....	1100-0300
Charlotte (CLT) .....	CVG FLM JOHNS (RNAV)-STAR.....	0700-2300
Dallas/Fort Worth (DFW) .....	J29 PXV J131 LIT BYP.....	
Fort Lauderdale (FLL) .....	V47 CVG HYK VXV J43 ATL J89 HITTR PIE FORTL-STAR.....	
	or (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 ATL J89 OTK JINGL (RNAV)-STAR .....	
Fort Myers (FMY).....	V47 CVG HYK VXV J43 SZW TYNEE (RNAV)-STAR ..	
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 SZW TYNEE (RNAV)-STAR .....	1100-0300
Houston (HOU) .....	GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
La Guardia (LGA) .....	J29 J146 ETG MIP-STAR .....	
Marco Island (MKY) .....	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR..	
Miami (MIA) .....	V47 CVG HYK VXV J43 ATL SZW J43 PIE CYY-STAR .....	
	or (Turbojets-GPS or DME/DME-IUR equipped) V47 CVG HYK VXV J43 ATL SZW SSCOT (RNAV)-STAR.....	
Naples (APF).....	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR..	
Orlando Executive (ORL) .....	V47 CVG HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or	



Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO) .....	V47 CVG HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR .....	1100-0400
Sarasota/Bradenton (SRQ) .....	V47 CVG HYK VXV J43 SZW CLAMP-STAR .....	
Tampa (TPA) .....	V47 CVG HYK VXV J43 SZW DARBS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 SZW FOXXX (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 TAY WLACE .....	1100-0300
	or	
	V47 CVG HYK VXV J99 IRQ TAY WLACE (RNAV)-STAR .....	1100-0300
<b>DETROIT METRO AREA (DTW, DET, YQG, PTK, YIP, ARB)</b>		
Albany (ALB) .....	MOONN-DP JHW .....	
Allentown (ABE) .....	ERRTH-DP ETG .....	
Atlanta (ATL) .....	RICHMOND-DP RID IIU BWG ROME-STAR .....	
	or	
	(RNAV only) RICHMOND-DP RID IIU BWG ERLIN (RNAV)-STAR .....	
Atlantic City (ACY) .....	ERRTH-DP CXR EWC JST J152 HAR SIE .....	
Baltimore (BWI) .....	ACO AIR AIR111 KEMAN WESTMINSTER-STAR .....	
Bedford (BED) .....	MOONN-DP JHW J82 ALB .....	
Binghamton (BGM) .....	MOONN-DP JHW .....	
Birmingham (BHM) .....	RICHMOND-DP RID IIU .....	
Boston (BOS) .....	MOONN-DP JHW J82 ALB GARDNER-STAR .....	
Buffalo (BUF) .....	(60-170 incl) MOONN-DP BROKK DKK .....	
Burlington (BTV) .....	MOONN-DP J29 JHW LAGGS .....	
Cancun (MMUN) .....	RICHMOND-DP RID IIU .....	
Charleston (CHS) .....	ROSEWOOD-DP ROD FLM HMV .....	
Charleston (CRW) .....	ACO AIR HVQ .....	
	or	
	(Turboprops/Props-at or below FL210) SCORR CHOOT APE HVQ .....	
Charlotte (CLT) .....	ROSEWOOD-DP ROD FLM HMV JOHNS (RNAV)-STAR .....	
Chicago Midway (MDW) .....	JXN V116 LEROY GSH GSH-STAR .....	
Cincinnati (CVG) .....	FDY DEBAR-STAR .....	
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	MAARS HIMEZ HIMEZ-STAR .....	
Columbus (CMH) .....	SCORR CHOOT YOGGI GUNNE-STAR .....	
Dallas/Fort Worth (DFW) .....	FORT WAYNE-DP FWA RBS STL RZC FSM BONHAM-STAR .....	
Denver (DEN) .....	DUNKS J70 PMM J94 ONL J114 SNY LANDR-STAR .....	1100-0359
Elmira (ELM) .....	MOONN-DP JHW .....	
Ft. Lauderdale (FLL) .....	ROSEWOOD-DP ROD FLM VXV CRG OMN GISSH-STAR .....	
	or	
	ROSEWOOD-DP ROD FLM VXV CRG OMN FISEL (RNAV)-STAR .....	
Fort Myers (FMY & RSW) .....	(Turbojets-GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG SHFTY (RNAV)-STAR .....	
Greensboro (GSO) .....	AIR EKN ROA HENBY .....	
Greer (GSP) .....	ROSEWOOD-DP ROD FLM SOT V185 UNMAN .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB ROKIT (RNAV)-STAR.... or	



Terminals	Route	Effective Times (UTC)
	(Non-advanced NAV only) RID-DP RID PXV J131 LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	CAVVS VVW ROD J29 PXV J131 LIT J180 CLUBS DAS-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) RID-DP RID PXV J131 LIT J180 SWB DAS-STAR .....	
Huntsville (HSV) .....	RICHMOND-DP RID IIU J39 BNA .....	
Indianapolis (IND) .....	ANNTS DX0217 FWA071 FWA MIE V14 CLANG-STAR .....	
Jacksonville (JAX) .....	ROSEWOOD-DP ROD FLM VVX AMG ALMA-STAR ..	
Kennedy (JFK) .....	MOONN-DP JHW J70 LVZ LENDY-STAR .....	
La Guardia (LGA) .....	ERRTH-DP ETG ETG MILTON-STAR .....	
Lexington (LEX) .....	ROSEWOOD-DP ROD CVG CLEGG-STAR .....	
Los Angeles (LAX) .....	DUNKS J70 PMM OBK IOW J60 HEC J64 .....	1100-0300
Louisville (SDF) .....	ROSEWOOD-DP ROD CVG REDSTONE-STAR .....	
Manchester (MHT) .....	MOONN-DP JHW J82 ALB EEN .....	
Memphis (MEM) .....	RICHMOND-DP CAVVS VVW ROD PXV WLDER-STAR .....	
Miami (MIA) .....	(RNAV only) ROSEWOOD-DP ROD FLM VVX CRG OMN HILEY (RNAV)-STAR .....	
	or ROSEWOOD-DP ROD FLM VVX CRG OMN ANNEY-STAR .....	
Minneapolis (MSP) .....	LAYNE DX0006 YQG341 J38 GRB EAU-STAR .....	
Montreal (CYUL) .....	TYCOB YQG098 J554 JHW J29 SYR ART ART040 J594 MSS FRANX FRANX-STAR .....	1100-0300
Myrtle Beach (MYR) .....	ACO AIR EKN RDU .....	
Nashville (BNA) .....	RICHMOND-DP RID IIU GUITR-STAR .....	
Newark (EWR) .....	ERRTH SLT FQM-STAR .....	
New Orleans (MSY) .....	RICHMOND-DP RID IIU J39 BNA MEI RYTHM-STAR .....	
Niagara Falls (IAG) .....	MOONN-DP BROKK DKK .....	
Norfolk (ORF) .....	ACO AIR MOL TERKS-STAR .....	
Norwood (OWD) .....	MOONN-DP JHW J82 ALB GDM .....	
Orlando Exec (ORL) .....	CAVVS VVW ROD J43 VVX J99 IRQ J85 AMG LEESE-STAR .....	
	or (GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD J43 VVX J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO) .....	ROSEWOOD-DP ROD FLM VVX AMG LEESE-STAR ..	
	or (GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VVX AMG BUGGZ (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	ERRTH-DP CXR EWC JST BUNTS-STAR .....	
Pittsburgh (PIT) .....	ACO CUTTA-STAR .....	
Portland (PWM) .....	MOONN-DP JHW J82 ALB CAM CON CON061 NEETS .....	
Pottstown (PTW) .....	ERRTH-SID CXR EWC JST .....	
Providence (PVD) .....	MOONN-DP JHW J82 MEMMS J522 HNK TEDDY-STAR .....	
Raleigh/Durham (RDU) .....	ACO AIR EKN ROA SOUTH BOSTON-STAR .....	
Reading (RDG) .....	ERRTH-DP ETG .....	
Richmond (RIC) .....	ACO AIR MOL FAK .....	
Roanoke (ROA) .....	ACO AIR EKN ROA .....	
	or (Turboprops/Props/at or below 230) SCORR CHOOT APE ROA .....	
Rochester (ROC) .....	MOONN-DP BROKK DKK .....	



Terminals	Route	Effective Times (UTC)
San Antonio (SAT) .....	FORT WAYNE-DP FWA RBS STL RZC MLC ACT MARCS-STAR .....	
	or	
	RICHMOND-DP RID RID234/40 PXV J131 TXK FZT TNV IDU MARCS-STAR .....	
San Francisco (SFO) .....	DUNKS J70 PMM J94 FMG ILA PYE .....	
Sarasota/Bradenton (SRQ) .....	ROSEWOOD-DP ROD FLM VXV AMG TAY LAL .....	
Shreveport (SHV) .....	RICHMOND-DP RID RID234/40 PXV .....	
St. Louis (STL) .....	ANNTS DX0217 FWA071 FWA RBS VLA-STAR .....	
Syracuse (SYR) .....	MOONN-DP JHW .....	
Tampa (TPA) .....	ROSEWOOD-DP ROD FLM VXV AMG TAY LZARD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) ROD-DP ROD FLM VXV AMG TAY DADES (RNAV)-STAR .....	
Teterboro (TEB) .....	MOONN-DP JHW J70 LVZ WILKES BARRE-STAR ...	
Toronto (CYYZ) .....	PISTN DX0020 V450 YWT V216 .....	
Trenton (TTN) .....	ERRTH-DP CXR EWC JST BUNTS-STAR .....	
Washington Dulles (IAD) .....	J42 BKW ROYIL-STAR .....	
	or	
	J42 BKW SHNON (RNAV)-STAR .....	
	or	
	PXV IIU J8 HVQ ROYIL-STAR .....	
	or	
	PXV IIU J8 HVQ SHNON (RNAV)-STAR .....	
Washington Natl (DCA) .....	(all others) ACO AIR J34 BUCKO BUCKO-STAR ....	
	or	
	(GPS or DME/DME-IRU equipped) ACO AIR J34 BUCKO ELDEE (RNAV)-STAR .....	
Westhampton Beach (FOK) .....	MOONN-DP JHW J70 STW LENDY .....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV CRG OMN TUXXI-STAR .....	
	or	
	ROSEWOOD-DP ROD FLM VXV CRG OMN FRWAY (RNAV)-STAR .....	
White Plains (HPN) .....	MOONN-DP JHW ITH DNY VALRE-STAR .....	
Wilkes-Barre (AVP) .....	MOONN-DP JHW .....	
Wilmington (ILG) .....	ERRTH-DP CXR EWC JST BUNTS-STAR .....	
Windsor Locks (BDL) .....	MOONN-DP JHW J82 WILET SWEDE-STAR .....	
Winston Salem (INT) .....	AIR EKN ROA HENBY .....	
<b>ELKHART (EKM)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	LFD CRL HIMEZ-STAR .....	
<b>EVANSVILLE (EVV)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
<b>FLINT (FNT)</b>		
Atlanta (ATL) .....	(RNAV-only) VWV RID IIU BWG ERLIN (RNAV)-STAR .....	
	or	
	VWV RID IIU BWG ROME-STAR .....	
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
<b>FORT WAYNE (FWA)</b>		
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
<b>GRAND RAPIDS (GRR)</b>		
Atlanta (ATL) .....	IIU BWG ROME-STAR .....	
	or	
	(RNAV only) IIU BWG ERLIN (RNAV)-STAR .....	
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
Cleveland Metro (CLE) (CGF) (BKL) (LNN) (LPR) .....	GRR HIMEZ-STAR .....	



Effective  
Times  
(UTC)

Terminals	Route	
<b>HAMILTON (CYHM)</b>		
Detroit/Wayne Area (DET, YIP, PTK, CYQG) .....	YXU PICES-STAR.....	
<b>INDIANAPOLIS (IND)</b>		
Dallas/Fort Worth (DFW) .....	J24 STL RZC FSM BYP .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
<b>KALAMAZOO/BATTLE CREEK (AZO)</b>		
Cincinnati (CVG).....	FWA DEBAR-STAR .....	
Cleveland Metro Area (CLE, CGF, BKL, LNN, LPR) .....	LFD CRL HIMEZ-STAR.....	
<b>LANSING (LAN)</b>		
Atlanta (ATL) .....	(RNAV only) VWV RID IIU BWG ERLIN (RNAV)-STAR .....	
	or	
	VWV RID IIU BWG ROME-STAR.....	
Cincinnati (CVG).....	FWA DEBAR-STAR .....	
Cleveland Metro Area (CLE, CGF, BKL, LNN, LPR) .....	SVM HIMEZ-STAR .....	
<b>LONDON (CYXU)</b>		
Detroit Metro Area (YIP, PTK, DET, CYQG) .....	YXU PICES-STAR.....	
<b>MADISON (MSN)</b>		
Cleveland Metro Area (CLE, CGF, BKL, LNN, LPR) .....	SQUIB GRR HIMEZ-STAR.....	
<b>MILWAUKEE (MKE)</b>		
Akron (CAK).....	OBK SAMPL ADIME OTENS VWV MFD V8 DALTS ...	
Albany (ALB) .....	SQUIB MKG ECK YXU BUF .....	
Andrews AFB (ADW) .....	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR.....	
Baltimore (BWI) .....	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR .....	
Boca Raton .....	(GPS or DME/DME-IRU equipped) OBK J73 SZW PRRIE (RNAV)-STAR .....	
Bedford (BED).....	SQUIB MKG ECK YXU BUF ALB GDM V431 LOBBY	
Boston (BOS) .....	SQUIB MKG ECK YXU BUF ALB GARDNER-STAR ...	
Buffalo (BUF) .....	SQUIB MKG ECK YXU .....	
Burlington (BTV).....	SQUIB MKG ECK YXU BUF SYR J29 LAGGS .....	
Cleveland Metro Area (CLE) .....	SQUIB LAN SVM HIMEZ-STAR .....	
Detroit/Wayne (DTW).....	BAE POLAR-STAR .....	
Detroit Metro Area (YIP) .....	SQUIB LAN SPRTN-STAR.....	
Flint (FNT) .....	SQUIB.....	
Fort Lauderdale (FLL) .....	OBK J73 SZW JINGL (RNAV)-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) OBK J73 SZW JINGL (RNAV)-STAR .....	
Fort Myers (FMY) .....	OBK J73 SZW TYNEE (RNAV)-STAR.....	1100-0300
Harrisburg (MDT).....	OBK SAMPL ADIME GERBS J146 CXR EWC HAR ...	1100-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	



Terminals	Route	Effective Times (UTC)
Hyannis (HYA).....	SQUIB MKG ECK YXU BUF ENE LFA.....	
Jackson (JXN).....	SQUIB.....	
Kansas City (MCI).....	DBQ BRAYMER-STAR.....	
Kansas City (MKC).....	DBQ IRK BRAYMER-STAR.....	
Kennedy (JFK).....	SQUIB MKG ECK J16 HANKK J522 HNK IGN KINGSTON-STAR.....	
La Guardia (LGA).....	SQUIB MKG ECK YXU BUF GEE ROCKDALE-STAR ..	
Lansing (LAN).....	SQUIB.....	
Mansfield (MFD).....	OBK SAMPL ADIME OTENS VVW .....	
Miami (MIA).....	OBK J73 SZW J43 PIE CYY-STAR .....	1100-0300
	or (Turbojets-GPS or DME/DME-IRU equipped) OBK J73 SZW SSCOT (RNAV)-STAR .....	1100-0300
Montreal (CYUL).....	SQUIB MKG ECK YYZ J594 MSS.....	
Morristown (MMU).....	SQUIB MKG ECK J16 HANKK IGN WEARD V489 COATE .....	
Nashville (BNA).....	OBK J73 PXV CCT HEHAW-STAR .....	
Newark (EWR).....	SQUIB MKG ECK J16 HANKK J522 HNK SHAFF-STAR .....	
Niagara Falls (IAG).....	SQUIB MKG ECK YXU .....	
Orlando Executive (ORL).....	OBK J84 DNV TTH BWG GQO ATL J89 OTK LEESE-STAR .....	
	or (GPS or DME/DME-IRU equipped) OBK J84 DNV TTH BWG GQO ATL J89 OTK PIGLT (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO).....	OBK J84 DNV TTH BWG GQO ATL J89 OTK LEESE-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) OBK J84 DNV TTH BWG GQO ATL J89 OTK PIGLT (RNAV)-STAR .....	1100-0400
Philadelphia (PHL).....	OBK SAMPL ADIME GERBS J146 CXR EWC JST BUNTS-STAR .....	
Pittsburgh (PIT).....	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB ACO CUTTA-STAR.....	
Portland (PWM).....	SQUIB MKG ECK YXU BUF ALB CON PARSO .....	
Pottstown (PTW).....	SQUIB ADALE J34 CRL CXR EWC JST .....	
Providence (PVD).....	SQUIB MKG ECK J16 HANKK J522 HNK TEDDY-STAR .....	
Sarasota/Bradenton (SRQ).....	OBK J73 SZW CLAMP-STAR .....	1100-0300
Syracuse (SYR).....	SQUIB MKG ECK YXU BUF .....	
Tampa (TPA).....	OBK J73 SZW DARBS-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) OBK J73 SZW FOXXX (RNAV)-STAR .....	1100-0300
Teterboro (TEB).....	SQUIB MKG ECK J16 HANKK IGN WEARD V489 COATE .....	
Toledo (TOL).....	SQUIB PMM LFD .....	
Toronto (CYYZ).....	SQUIB MKG ECK V216.....	
Washington Dulles (IAD).....	OBK GIJ J146 J34 DJB J34 AIR MGW MGW121 VERNI ESL SHAAR ROYIL-STAR.....	
	or OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR.....	
Washington Natl (DCA).....	OBK GIJ J146 J34 DJB J34 SHAAR WZRRD-STAR ..	
	or OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI).....	(GPS or DME/DME-IRU equipped) OBK J73 SZW WLACE.....	
White Plains (HPN).....	SQUIB MKG ECK J16 BUF ITH DNY VALRE-STAR ..	
Windsor Locks (BDL).....	SQUIB MKG ECK J16 AUDIL SWEDE-STAR.....	
Youngstown (YNG).....	OBK SAMPL ADIME GERBS CXR .....	



Effective  
Times  
(UTC)

Terminals	Route
<b>MOLINE (MLI)</b>	
Cleveland Metro Area (CLE) (CGF) (BKL)	
(LNN) (LPR) .....	ELX CRL HIMEZ-STAR .....
Detroit/Wayne (DTW) .....	MKG POLAR-STAR
<b>MONTREAL (CYUL)</b>	
Cincinnati (CVG) .....	(RNAV only) YOW J546 YSO MAULL KODIE CTW
	TIGRR (RNAV)-STAR .....
	or
	(all others) YOW J546 YSO YYZ JHW JHW194
	MAULL SLT249 KODIE CTW081 CTW
	CINCE-STAR .....
Detroit/Wayne (DET) .....	YOW J546 .....
Kennedy (JFK) .....	V282 J524 BUGSY J570 ALB IGN IGN-STAR .....
La Guardia (LGA) .....	V282 J542 BUGSY J570 ALB PWL IGN V157
<b>OSHAWA (CYOO)</b>	
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	YSN YHM YXU PICES-STAR .....
<b>OTTAWA (CYOW)</b>	
Detroit Metro Area (DTW, DET, YQG, PTK, YIP ARB) .....	YOW J546 YSO YXU PICES-STAR .....
<b>PEORIA (PIA)</b>	
Detroit/Wayne (DTW) .....	MKG POLAR-STAR .....
<b>ROCKFORD (RFD)</b>	
Cleveland Metro Area (CLE) (CGF) (BKL)	
(LNN) (LPR) .....	ELX CRL HIMEZ-STAR .....
<b>SAGINAW (MBS)</b>	
Cleveland Metro Area (CLE) (CGF) (BKL)	
(LNN) (LPR) .....	MBS V133 SVM HIMEZ-STAR .....
<b>SAINT THOMAS (CYQS)</b>	
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	AXXIS PICES-STAR .....
<b>SOUTH BEND (SBN)</b>	
Atlanta (ATL) .....	(RNAV only) IIU BWG ERLIN (RNAV)-STAR .....
	or
	IIU BWG ROME-STAR .....
Cincinnati (CVG) .....	FWA DEBAR-STAR .....
Cleveland Metro Area (CLE) (CGF) (BKL)	
(LNN) (LPR) .....	LFD CRL HIMEZ-STAR .....
<b>TOLEDO (TOL)</b>	
Atlanta (ATL) .....	VWV RID IIU BWG ROME-STAR .....
<b>TORONTO (CYYZ)</b>	
Cincinnati (CVG) .....	(RNAV only) THORL JHW MAULL KODIE CTW
	TIGRR (RNAV)-STAR .....
	or
	(all others) THORL JHW JHW194 MAULL SLT249
	KODIE CTW081 CTW CINCE-STAR .....
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	ANCOL V104 YXU PICES-STAR .....
La Guardia (LGA) .....	(above 250 kts) V252 GEE RKA-STAR .....
	or
	(250 kts or less) V252 GEE V14 BEEPS J522
	EXTOL RKA292 RKA NOBB-STAR .....
San Francisco (SFO) .....	GRB J106 GEP J70 ABR J32 FMG ILA PYE .....
<b>WATERLOO (CYKF)</b>	
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	YXU PICES-STAR .....

1100-0300



# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals	Route	Effective Times (UTC)
Traffic originating east of Chicago Terminating Denver:		
DJB .....	J60 IOW DSM J144 OBH J10 LBF SAYGE-STAR .....	1300-0100
BAE .....	J16 MCW ONL J114 SNY LANDR-STAR .....	1300-0100
STL .....	STL J110 GCK J154 RYLIE DANDD-STAR .....	
Traffic overflying Cleveland Center and south of SLT:		
HPN .....	(above 250 kts) SLT J190 CFB DNY280 DNY VALRE-STAR .....	
	or	
	PSB J49 CFB220 CFB DNY280 DNY VALRE-STAR .....	
	or	
	(250 kts or less) SLT J190 CFB DNY280 DNY NOBBI-STAR .....	
	or	
	PSB J49 CFB220 CFB DNY280 DNY NOBBI-STAR .....	
EWR .....	ROD J29 J584 FQM-STAR .....	1100-0300
ROD J29 J70 LVZ LENDY-STAR .....	1100-0300 or	
BKW J42 GVE KORRY-STAR .....	1100-0300	
PHL .....	ROD J152 HAR V210 BUNTS .....	1100-0300
	or	
	BKW J42 GVE DPNT-STAR .....	1100-0300
PIT .....	APE CTW V443 WISKE .....	
	or	
	HNN JPU V117 WISKE .....	
TEB/MMU/CDW/Satellites .....	(Non-Advanced Nav Aircraft only) ROD J29 JHW J70 LVZ LVZ-STAR .....	
Traffic overflying Badger VORTAC, BAE to Washington Dulles IAD:		
BAE .....	J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Traffic overflying Gipper VORTAC, GIJ to Washington Dulles IAD:		
GIJ .....	J146 WOOST J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J146 WOOST J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Traffic overflying Indianapolis Center area eastbound originating north and west of a line from DFW to JFK:		
ABE .....	ROD CXR J146 .....	
BDL .....	ROD J29 JHW J82 WILET RKA SWEDE-STAR .....	
BWI .....	ROD J152 J162 MGW EMI-STAR .....	
CEF .....	ROD J29 JHW J82 ALB .....	
FRG .....	ROD J29 JHW J82 J522 HNK IGN V58 V91 CCC .....	
HPN .....	(above 250 kts) ROD J29 JHW J82 WILET DNY VALRE-STAR) .....	
	or	
	(250 kts or less) ROD J29 JHW J82 WILET DNY NOBBI-STAR .....	
ISP .....	(above 250 kts) ROD J152 J78 PSB J49 HNK J68 V130 TOMES MAD V34 CREAM V16 CCC .....	
	or	
	(250 kts or less) ROD J152 J78 PSB J49 HNK DNY LOVES-STAR .....	
TEB/MMU/CDW/LDJ .....	ROD J29 JHW J70 LVZ-STAR .....	



Terminals	Route	Effective Times (UTC)
Traffic overflying Indianapolis Center area eastbound originating south and east of a line from DFW to JFK:		
ABE .....	BKW LDN LDN031 V377 HAR V162 DUMMR.	
ACY .....	BKW J42 OTT SIE .....	
BWI .....	BKW J147 CSN OTT-STAR .....	
DAA .....	BKW J213 V143 V4 AML .....	
DCA/ADW .....	BKW WZRRD-STAR .....	
	or	
DOV .....	BKW ELDEE (RNAV)-STAR .....	
HPN .....	BKW J42 GVE ENO-STAR .....	
IAD .....	BKW J42 OOD J150 CYN BOUNO-STAR .....	1100-1830 and 2230-0300
	BKW ROYIL-STAR .....	
	or	
	BKW SHNON (RNAV)-STAR .....	1100-1830 and 2230-0300
	or	
	GSO J14 CREWE J51 FAK COATT-STAR .....	1830-2230
	or	
	GSO J14 CREWE J51 FAK BARIN (RNAV)-STAR .....	1830-2230
LFI .....	BKW J42 MOL J24 HCM .....	
NSF .....	BKW J213 FINKS AML259 AML .....	
PHL .....	BKW J42 GVE DPNT-STAR .....	
TEB/MMU/CDW/LDJ .....	(Advanced Nav Aircraft only) BKW J42 GVE JAIKE-STAR .....	
WRI .....	BKW J42 OTT SIE-STAR .....	
Traffic overflying Indianapolis Center from Kansas City Center landing at Cleveland Metro:		
CLE .....	(GPS or DME/DME-IRU equipped) STL J134 JUDDI CVG ABERZ-STAR .....	
Traffic overflying Indianapolis Center from Kansas City Center landing at Detroit/Wayne:		
DTW .....	(GPS or DME/DME-IRU equipped) PXV VHP FWA MIZAR-STAR .....	
Traffic overflying Indianapolis (ZID) or Cleveland (ZOB) Centers landing in the Washington Metropolitan Area:		
BWI .....	MGW EMI-STAR .....	1100-0300
	or	
	BKW J147 CSN OTT-STAR .....	1100-0300
DCA .....	APE J30 BUCKO BUCKO-STAR .....	1100-0300
	or	
	BKW FINKS-STAR .....	1100-0300
	or	1100-0300
	(GPS or DME/DME-IRU equipped) BKW ELDEE (RNAV)-STAR .....	1100-0300
	or	
	APE J30 SHAAR WZRRD-STAR .....	
	or	
	BKW WZRRD-STAR .....	
	or	
	APE J30 SHAAR ELDEE .....	
	or	
	BKW ELDEE (RNAV)-STAR .....	
	or	
IAD .....	APE AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	BKW ROYIL-STAR .....	
	or	
	HVQ ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) APE AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
	or	
	BKW SHNON (RNAV)-STAR .....	
	or	
	HVQ SHNON (RNAV)-STAR .....	



Terminals	Route	Effective Times (UTC)
Traffic overflying Indianapolis Center (ZID) to Chicago O'Hare (ORD)		
ORD .....	(Non-Advanced Nav Aircraft only) ATL J89 IIU MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only) BNA IIU MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only) FLM J24 BIGXX MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only) IRQ J99 IIU MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only, Washington/Baltimore Metro Area Only: BWI, DCA, IAD) ROD J149 FWA KNOX-STAR .....	

## HIGH ALTITUDE—SINGLE DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J24/110 .....	Indianapolis, IN to St. Louis, MO .....	West	1100-0300
J30 .....	Joliet, IL to TRIXY Intn, VA .....	East	1100-0300
J34 .....	Bellaire, OH to TRIXY Intn, VA .....	East	1100-0300
J149 .....	Armel, VA to Rosewood, OH .....	West	1100-0300
J162 .....	Bellaire, OH to Martinsburg, WV .....	East	1100-0300



## Q-ROUTES REGULATORY

**Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.**

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
<b>Q1</b>	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
<b>Q2</b>	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
<b>Q3</b>	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
<b>Q4</b>	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
<b>Q5</b>	SKTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
<b>Q7</b>	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
<b>Q9</b>	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
<b>Q13</b>	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
	All segments	None; GNSS required
<b>Q15</b>	All segments	None; GNSS required
<b>Q19</b>	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IUI, FAM, BWG, CSX
<b>Q20</b>	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
<b>Q21</b>	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
<b>Q22</b>	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJJ
	ACMES-CATLN	SJJ, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
<b>Q23</b>	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL



Route	Segment	DME
Q24	LAKE CHARLES-BATON ROUGE BATON ROUGE-IRUBE IRUBE-PAYTN	AEX, DAS, LCH, MCB, LFT, BTR AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE WALNUT RIDGE-WLSUN WLSUN-POCKET CITY	ELD, MEM, LIT, FAM, RZC MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD PYRMD-HAKAT HAKAT-ESTEE ESTEE-POCKET CITY	EIC, LIT, ELD, OKM, TXK ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK ARG, LIT, FAM, SGF, MEM ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS MEMPHIS-SIDAE SIDAE-POCKET CITY	MEM, ARG, LIT, JAN, ELD, SQS MEM, PXV, BNA, BWG, ARG, ENL PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX JODOX-MARVELL MARVELL-TIIDE TIIDE-POCKET CITY	SQS, LIT, TXK SQS, LIT, ELD, MEM, ARG ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE GAGLE-CRAMM CRAMM-NASHVILLE NASHVILLE-SWAPP	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK JAN, SQS, MEM, ARG, VUZ, BNA, LIT BWG, MEM, VUZ, BNA, GQO BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
Q34	LITTLE ROCK-PROWL TEXARKANA-MATIE MATIE-MEMPHIS MEMPHIS-SWAPP	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL LIT, SWB, TXK, BYP, EIC, ELD, SQS LIT, ARG, MEM, ELD, SQS BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY-NEERO NEERO-WINEN WINEN-CORKR CORKR-DRAKE	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
Q36	RAZORBACK-TWITS TWITS-DEPEC DEPEC-NASHVILLE NASHVILLE-SWAPP	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU GQO, BWG, BNA, PXV, IIU VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT-INCIN INCIN-LAREY LAREY-BESOM	DAS, LCH, SWB, IAH, LFK, HUB, AEX JAN, MCB, SWB, AEX JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS DOOMS-WINAP WINAP-MISLE	AEX, SWB, LCH, JAN, HEZ, MCB JAN, SQS, MEI, MCB MEI, VUZ, JYU
Q42	KIRKSVILLE-STRUK STRUK-DANVILLE  DANVILLE-MUNCIE MUNCIE-HIDON	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC AIR, APE, HNN, CXR, HVQ, EWC, DJB AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD PIE, ORL, OMN, SRQ, TAY LAL, ORL, OMN, SRQ, PHK, PIE PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
Q104	HIDON-BUBAA BUBAA-PSYKO PSYKO-BRANAN BRANAN-MAALS MAALS-SUZIE SUZIE-EAST TEXAS EAST TEXAS-ELIOT DEFUN-HEVVN HEVVN-PLYER PLYER-SWABE SWABE-ST PETERSBURG ST PETERSBURG-CYPRESS	



Route	Segment	DME
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
Q112	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
Q502	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,
Q504		MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
Q505		SAW, GRB, BRD
	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB



**RNAV Routing Pitch and Catch Points**

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.







### HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

### HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MVZ or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, EMG, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, ELD Q32 J42



Houston Hobby	LIT, EMG, MLC, JCT, or Aircraft joining J42 to the northeast, ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTS or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE



Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area	GALLI, INSLO, HAROL JSICA
Oakland	GALLI, INSLO, HAROL JSICA
San Jose	GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

\*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

### **Catch Points for Airports Located Outside HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVA or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.



**Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas/Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS



Denver Terminal Area	OATHE DANDD-STAR
	or
	HGO QUAIL-STAR
	or
	LOPEC-STAR
	or
	ALS LARKS-STAR
	or
	HBU POWDR-STAR
	or
	EKR TOMSN-STAR
	or
	CHE TOMSN-STAR
	or
	BFF LANDR-STAR
	or
	LBF SAYGE-STAR
	or
	HCT SAYGE-STAR
	or
	RSK LARKS-STAR
	or
	LAA QUAIL-STAR
	or
	GCK J154 RYLIE DANDD-STAR
	or
	OCS J154 ALPOE RAMMS-STAR
	or
	YANKI J114 SNY LANDR-STAR
	or
	Aircraft filed BIL or east, MBW RAMMS-STAR
Ft Lauderdale or Ft Lauderdale Executive	CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR
	Aircraft through ZHU airspace remain south ZME and ZTL airspace
	or
Houston Bush	SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR
	CRP, CVE, LLO, LUKIY, SAT
	or
	Aircraft south and east of LLA, LLA
	or
	MISLE Q40 AEX
	or
	Aircraft north and east of SJI, SJI
	or
	Aircraft east of PXV, PXV Q31 DHART SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
Houston Hobby	CRP, ELLVR, SAT, SWB
	or
	Aircraft south and east of GIRLY, GIRLY
	or
	Aircraft north and east of SJI, SJI
	or
	BESOM Q38 ROKIT ROKIT-STAR
	or
	Aircraft east of PXV, PXV Q29 HARES SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
Jacksonville	GADAY ZOOSS TAY
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	ZOOSS TAY



John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVNV Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVNV Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR



Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR
St. Louis Terminal Area	SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU



San Francisco	FMG GOLDEN GATE–STAR
	or
	MVA MODESTO–STAR
	or
	ENI GOLDEN GATE–STAR
	or
San Jose	OAL MODESTO–STAR
	or
	South of a line ILC to DVC, REANA KATTS OAL MODESTO–STAR
	FMG HYP EL NIDO–STAR
	or
	OAL HYP EL NIDO–STAR
Seattle Terminal Area	or
	ENI GOLDEN GATE–STAR
	or
	South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO–STAR
	Aircraft from northeast, southeast, south, TEMPL GLASR–STAR
	or
Southwest Florida Airports RSW and FMY	SUNED CHINS–STAR
	or
	BTG OLMYPIA–STAR
	CEW DEFUN Q104 SWABE JOSFF–STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
Tampa Terminal Area	SZW HEVVN Q104 SWABE JOSFF–STAR
	CEW DEFUN Q104 HEVVN DARBS–STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	SZW DARBS–STAR
	or
Tucson	DRK PXR
	or
	MOHAK GBN



## VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

## BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPOOP	_____	N38°56.32' /W076°36.90'

## BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGLV	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPPIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

## BOSTON TERMINAL AREA CHART

VPCOH	Cohasset	N42°13.58' /W070°48.94'
VPCUT	Cuttyhunk Harbor	N41°25.50' /W070°55.03'
VPFRA	Framingham Shopping Center	N42°18.16' /W071°23.65'
VPHOL	Woods Hole	N41°31.06' /W070°40.60'
VPHUL	Hull	N42°18.20' /W070°55.30'
VPLPT	Nantucket Great Point	N41°23.41' /W070°02.78'
VPNED	Needham Towers	N42°18.51' /W071°14.64'
VPPEA	Peabody Shopping Center	N42°32.52' /W070°56.69'
VPROC	Rockingham Race Track	N42°46.29' /W071°13.57'
VPSCI	Scituate	N42°11.89' /W070°43.69'
VPTPT	Nantucket Third Point	N41°18.51' /W070°03.37'
VPTUC	Tuckernuck	N41°18.31' /W070°15.43'
VPWAK	Wakefield	N42°30.72' /W071°05.24'
VPWAN	Wang Towers	N42°36.88' /W071°19.45'

## CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'



## CHICAGO SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCOH	_____	N31°49.35' / W081°51.07'

## DENVER TERMINAL AREA CHART/FLYWAY CHART

VPBEN	_____	N39°44.28' / W104°26.00'
VPFTG	_____	N39°44.35' / W104°32.75'
VPNIC	NORTH INTERCHANGE	N39°58.90' / W104°59.27'

## HOUSTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	_____	N29°46.25' / W095°09.24'
VPDTN	_____	N29°46.59' / W095°22.01'
VPGLA	_____	N30°08.32' / W095°06.62'
VPGLB	_____	N30°07.80' / W094°55.70'
VPKTY	_____	N29°47.05' / W095°44.92'
VPPLN	_____	N30°08.80' / W095°50.42'
VPRSN	_____	N29°30.00' / W095°41.00'
VPSND	_____	N29°23.13' / W095°28.86'
VPSNT	_____	N29°49.29' / W094°53.94'
VPTNE	_____	N29°47.48' / W095°03.34'
VPTNW	_____	N29°47.06' / W095°33.81'
VPTRK	_____	N29°24.06' / W095°10.44'

## JACKSONVILLE SECTIONAL CHART

VPAFI	_____	N31°49.35' / W081°51.07'
VPAFY	_____	N30°07.00' / W081°21.33'
VPBEC	_____	N29°46.25' / W081°15.10'
VPCJA	_____	N29°30.00' / W081°06.00'
VPCKY	_____	N28°46.50' / W082°34.00'
VPCNY	_____	N28°30.00' / W080°45.00'
VPDAD	DADE CITY	N28°22.57' / W082°11.25'
VPDAR	_____	N31°22.38' / W081°24.13'
VPDFI	_____	N29°00.17' / W081°20.85'
VPDUT	_____	N27°37.70' / W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67' / W082°49.83'
VPEGV	_____	N29°39.97' / W081°24.87'
VPPFU	_____	N28°57.08' / W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50' / W082°44.67'
VPHAA	_____	N30°04.02' / W083°40.02'
VPHUC	_____	N28°19.87' / W082°43.77'
VPIWA	MIDWAY	N31°48.33' / W081°25.85'
VPJMY	_____	N29°26.92' / W081°18.27'
VPKER	LAKE PARKER	N28°04.00' / W081°56.00'
VPLEV	_____	N28°48.00' / W080°52.00'
VPLJA	_____	N29°00.00' / W080°51.00'
VPMAI	_____	N30°50.02' / W084°56.63'
VPTLH	_____	N30°32.70' / W083°52.22'
VPXZY	_____	N29°35.00' / W083°10.00'
VPYIW	_____	N30°42.28' / W081°27.25'
VPZIE	_____	N32°01.62' / W080°53.42'

## KANSAS CITY SECTIONAL CHART

VPAGO	_____	N37°50.33' / W090°29.03'
VPBEK	_____	N37°15.07' / W092°30.67'
VPDEN	_____	N37°46.75' / W092°19.20'
VPENE	_____	N37°44.75' / W091°55.78'
VPESS	_____	N36°59.48' / W091°00.88'
VPFME	_____	N37°41.00' / W092°38.33'
VPGXV	_____	N37°15.50' / W091°40.17'
VPMBE	_____	N37°11.08' / W090°27.92'
VPMKE	_____	N37°24.47' / W092°40.00'
VPROV	_____	N38°01.72' / W091°12.81'
VPUTT	_____	N37°52.05' / W092°01.20'



## KANSAS CITY TERMINAL AREA CHART

## KLAMATH FALLS SECTIONAL CHART

## LOS ANGELES HELICOPTER CHART

EC, 17 DEC 2009 to 11 FEB 2010



## LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71'/W119°10.39'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

## LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPGTY	GETTY CENTER	N34°04.84'/W118°28.66'
VPLBP	BANNING PASS	N33°56.05'/W116°59.63'
VPLCC	CHAFFEY COLLEGE	N34°08.87'/W117°34.33'
VPLCP	CAJON PASS	N34°18.07'/W117°27.68'
VPLDL	DISNEYLAND	N33°48.72'/W117°55.13'
VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLDS	DODGER STADIUM	N34°04.42'/W118°14.42'
VPLFX	91/605 INTERCHANGE	N33°52.38'/W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10'/W118°18.02'
VPLHF	110/405 FWYS	N33°51.42'/W118°17.10'
VPLHP	HUNTINGTON PIER	N33°39.32'/W118°00.25'
VPLKH	KING HARBOR	N33°50.75'/W118°23.88'
VPLLC	L.A. COLISEUM	N34°00.83'/W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58'/W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20'/W118°36.28'
VPLMS	MILE SQUARE PARK	N33°43.40'/W117°56.77'
VPLPD	PRADO DAM	N33°53.40'/W117°38.48'
VPLPP	PACIFIC PALISADES	N34°02.13'/W118°32.15'
VPLQM	QUEEN MARY	N33°45.17'/W118°11.37'
VPLRB	ROSE BOWL	N34°09.67'/W118°10.05'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45'/W118°02.65'
VPLSA	SANTA ANA CANYON	N33°52.03'/W117°42.68'
VPLSB	SANTA FE FLOOD BASIN	N34°07.72'/W117°57.30'
VPLSC	STATE COLLEGE	N33°52.97'/W117°53.13'
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87'/W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07'/W118°21.13'
VPLSS	SANTA SUSANA PASS	N34°16.00'/W118°38.43'
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40'/W118°20.30'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97'/W118°16.32'
VPLWT	WATER TANK	N34°10.82'/W118°46.27'
VPNEW	NEWHALL PASS	N34°20.18'/W118°30.72'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

## MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92'/W080°06.93'
VPBOV	_____	N27°57.00'/W080°46.75'
VPCLC	_____	N26°27.07'/W082°00.88'
VPCTE	_____	N26°09.28'/W081°20.70'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDUT	_____	N27°37.70'/W082°09.10'
VPDZE	_____	N27°19.00'/W080°44.17'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78'/W080°28.00'
VPFAH	_____	N26°25.40'/W081°29.67'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHRO	_____	N27°05.97'/W082°12.20'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIBR	_____	N27°12.47'/W081°40.22'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPKOE	_____	N24°40.08'/W081°20.55'
VPLYY	_____	N24°49.07'/W080°49.17'
VPMB0	GULFSTREAM PARK	N25°58.57'/W080°08.17'
VPOBA	PUMPING STATION	N26°28.30'/W080°26.75'
VPRBI	_____	N25°50.67'/W080°55.18'
VPRNL	RANGER STATION	N25°22.92'/W080°36.58'
VPWMO	_____	N27°03.00'/W080°35.00'



## MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' / W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' / W080°28.00'
VPMB0	GULFSTREAM PARK	N25°58.57' / W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' / W080°26.75'
VPRBI		N25°50.67' / W080°55.18'
VPRNL	RANGER STATION	N25°22.92' / W080°36.58'

## NEW ORLEANS SECTIONAL CHART

VPGPT		N30°25.95' / W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' / W085°59.25'
VPMAI		N30°50.02' / W084°56.63'
VPMOB		N30°23.00' / W088°31.72'
VPRAM		N30°18.95' / W089°35.88'
VPRER		N30°13.87' / W085°20.67'
VPRIV		N30°54.85' / W087°57.82'
VPSAW		N30°49.65' / W089°07.42'
VPTHR		N30°19.93' / W087°08.50'

## NEW YORK HELICOPTER CHART

VPJAY		N40°59.00' / W073°07.00'
VPLYD		N40°57.37' / W073°29.59'
VPROK		N40°52.70' / W073°44.24'

## PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' / W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' / W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' / W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' / W111°59.08'
VPAZM	ARIZONA MILLS	N33°23.43' / W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' / W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' / W111°50.37'
VPCNL	CANAL	N33°33.23' / W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35' / W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' / W111°42.72'
VPGLX	GILA CROSSING	N33°16.55' / W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' / W112°13.00'
VPMAR	MARICOPA	N33°03.42' / W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' / W111°49.58'
VPNRV	NEW RIVER	N33°55.08' / W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' / W111°55.83'
VPIIR	PIR	N33°22.52' / W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' / W112°23.58'
VPRVC	RIO VERDE COMMUNITY	N33°44.37' / W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' / W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' / W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' / W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' / W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' / W111°59.67'
VPZZZ		N33°20.18' / W111°26.53'

## ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' / W090°22.42'
VPBPE		N38°23.80' / W090°20.38'
VPCJY	HOLIDAY SHORES	N38°55.00' / W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' / W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' / W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' / W090°11.55'
VPEDZ	WATER TANKS	N38°45.30' / W090°34.87'
VPEGR	GAS TANKS	N38°35.80' / W090°19.32'
VPEOX	ST PETERS	N38°47.17' / W090°39.25'



WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00'/W090°43.00'
VPFFY		N38°55.37'/W090°17.30'
VPGPF		N38°35.60'/W090°26.92'
VPGVI		N38°32.30'/W090°27.80'
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88'/W090°10.42'
VPIBO	WATERLOO	N38°20.00'/W090°09.00'
VPJMU	HORSESHOE LAKE	N38°41.00'/W090°05.00'
VPKNY	PACIFIC	N38°29.00'/W090°44.00'
VPLES	ST CHARLES	N38°47.00'/W090°30.00'
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50'/W090°11.00'
VPNSY	WOOD RIVER REFINERIES	N38°50.00'/W090°05.00'
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00'/W090°20.00'
VPRMO	FOREST PARK	N38°38.00'/W090°17.00'
VPWKO	COLUMBIA	N38°27.00'/W090°12.00'
VPXXI	MILLSTADT	N38°27.50'/W090°05.68'
VPYID	MOSENTHEIN ISLAND	N38°43.00'/W090°12.25'

### SALT LAKE CITY HELICOPTER CHART

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15'/W111°54.90'
VPNTP		N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVPO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY		N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00'/W112°03.33'

### SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPVCI	CENTERVILLE INTERCHANGE	N40°55.30'/W111°53.43'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'



WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSh	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEP	STATE PRISON	N40°29.88'/W111°53.62'
VPPTT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPPOV	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VP TIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73'/W111°50.28'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'
VPZOO	HOGLE ZOO	N40°45.00'/W111°48.95'

### SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPOCN	_____	N33°14.15'/W117°26.63'
VPSBC	BARONA CASINO	N32°56.25'/W116°52.60'
VPSBL	_____	N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF	_____	N32°48.55'/W117°09.17'
VPSCM	COWLES MOUNTAIN	N32°48.72'/W117°01.97'
VPSCP	CRYSTAL PIER	N32°47.77'/W117°15.42'
VPSCR	_____	N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25'/W116°57.33'
VPSLJ	LAKE JENNINGS	N32°51.53'/W116°53.28'
VPSMB	_____	N32°45.57'/W117°12.22'
VPSMP	_____	N33°22.70'/W117°36.75'
VPSMS	MOUNT SOLEDAD	N32°50.40'/W117°15.10'
VPSMV	_____	N32°45.75'/W117°09.80'
VPSMW	MOUNT WOODSON	N33°00.52'/W116°58.23'
VPSOP	OTAY MESA PRISON	N32°35.82'/W116°55.28'
VPSOT	LOWER OTAY LAKE	N32°37.73'/W116°55.38'
VPSPL	SOUTH POINT LOMA	N32°39.90'/W117°14.55'
VPSPP	POWER PLANT	N33°08.25'/W117°20.23'
VPSQS	QUALCOMM STADIUM	N32°46.98'/W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58'/W117°15.95'
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78'/W116°56.18'
VPSSV	SAN VICENTE ISLAND	N32°55.53'/W116°55.00'
VPSTP	TORREY PINES GOLF COURSE	N32°54.17'/W117°14.68'
VPSVA	_____	N33°11.48'/W117°16.38'

### SAN FRANCISCO SECTIONAL CHART

VPKBG	KINGSBURY GRADE	N38°58.75'/W119°53.20'
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### SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35'/W121°35.42'
VPANT	ANTIOCH BRIDGE	N38°01.45'/W121°45.02'
VPBBR	BENICIA BRIDGE	N38°02.50'/W122°07.45'
VPCL	CALAVERAS RESERVOIR	N37°28.16'/W121°48.93'
VPGBT	LAKE CHABOT	N37°43.68'/W122°06.94'
VPCTO	COYOTE HILLS	N37°32.50'/W122°05.06'
VPCTZ	CARQUINEZ BRIDGE	N38°03.66'/W122°13.52'
VPCLL	_____	N37°11.00'/W121°41.06'
VPCTY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56'/W122°21.10'



## WAYPOINT IDENT

VPCSH  
VPDAM  
VPDLR  
VPDUB  
VPEMB  
VPGGF  
VPGIL  
VPHHH  
VPKGO  
VPLEX  
VPMID  
VPMOR  
VPMUM  
VPPAC  
VPPRU  
VPSAR  
VPSLA  
VPSTB  
VPSUN  
VPUTC  
VPWAL  
VPWAM  
VPWFR

## COLLOCATED VFR CHECKPOINT

CAL STATE UNIVERSITY  
DEL VALLE DAM  
  
DUBLIN  
EMBASSY SUITES  
GOLDEN GATE FIELDS  
GILROY  
HAMILTON  
KGO  
LEXINGTON RESERVOIR  
MID-SPAN SAN MATEO BRIDGE  
MORMON TEMPLE  
NUMMI PLANT  
  
PRUNEYARD  
SARATOGA  
SLAC/LINEAR ACCELERATOR  
STINSON BEACH  
SUNOL GOLF COURSE  
U.T.C.  
WALNUT CREEK  
  
CEMENT PLANT

## LOCATION

N37°39.52'/W122°03.52'  
N37°36.91'/W121°44.78'  
N37°07.00'/W121°47.06'  
N37°42.06'/W121°55.36'  
N37°26.05'/W121°53.83'  
N37°53.07'/W122°18.71'  
N37°01.37'/W121°33.99'  
N38°03.58'/W122°30.66'  
N37°31.58'/W122°06.10'  
N37°11.66'/W121°59.18'  
N37°36.28'/W122°11.81'  
N37°48.46'/W122°11.95'  
N37°29.56'/W121°56.58'  
N37°38.00'/W122°32.07'  
N37°17.33'/W121°56.01'  
N37°15.26'/W122°02.33'  
N37°24.75'/W122°14.35'  
N37°54.45'/W122°40.41'  
N37°34.85'/W121°53.23'  
N37°13.93'/W121°41.35'  
N37°53.78'/W122°04.30'  
N37°30.28'/W122°10.00'  
N37°30.88'/W122°12.26'

## TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV  
VPCNY  
VPDAD  
VPDFI  
VPDUT  
VPEAR  
VPFFU  
VPGPE  
VPHUC  
VPKER  
VPLEV  
VPLJA

DADE CITY

CLEARWATER BEACH

ST PETE BEACH

LAKE PARKER

N27°57.00'/W080°46.75'  
N28°30.00'/W080°45.00'  
N28°22.57'/W082°11.25'  
N29°00.17'/W081°20.85'  
N27°37.70'/W082°09.10'  
N27°58.67'/W082°49.83'  
N28°57.08'/W081°00.33'  
N27°43.50'/W082°44.67'  
N28°19.87'/W082°43.77'  
N28°04.00'/W081°56.00'  
N28°48.00'/W080°52.00'  
N29°00.00'/W080°51.00'

## WASHINGTON SECTIONAL CHART

VPACE  
VPAXI  
VPBRA  
VPGCE  
VPWZO

N38°07.82'/W076°48.75'  
N38°34.57'/W076°20.38'  
N36°13.75'/W076°08.08'  
N36°03.90'/W076°36.42'  
N36°00.87'/W075°40.07'



# VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

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The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

## ILLINOIS

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Centralia</b> (Centralia Muni) .....	115.0/ENL	A/2000	027	6.1	Over apch end Rwy 36.
<b>Champaign</b> (Urbana) .....	110.0/CMI	A/2000	177	7.8	Over grain elevator at Pesotum.
<b>Champaign</b> (University of Illinois–Willard) ...	110.0/CMI	G	332	0.9	On runup pad Rwy 14L.
<b>Decatur</b> (Decatur) .....	117.2/DEC	A/1700	348	5.4	Over apch end Rwy 36.
<b>Galesburg</b> .....	109.8/GBG	A/3000	237	12	Over railroad bridge.
<b>Jacksonville</b> .....	108.6/IJX	A/1600	137	11.1	Over railroad crossing 2 NM NW of Franklin.
<b>Joliet</b> (Aurora Muni) .....	112.3/JOT	A/2500	331	15	Over intersection of rwsy.
<b>Joliet</b> (Joliet Rgnl) .....	112.3/JOT	A/1500	102	6.5	Over centerline of NW end of Rwy 04–22.
<b>Lawrenceville</b> (Lawrenceville–Vincennes Intl) .....	108.8/LWV	G	177	.6	South side of Echo.
<b>Marion</b> (Williamson Co Rgnl) .....	110.4/MWA	A/1500	287	11	Railroad intersection in town of De Soto.
	110.4/MWA	G	139	.5	On parallel twy to Rwy 29.
<b>Mattoon/Charleston</b> (Coles Co Memorial) ...	109.4/MT0	G	066	.7	Runup pad Rwy 24. VOR checkpoint unusable.
<b>Moline</b> (Quad City Intl) .....	114.4/MZV	A/2000	034	9.8	Over intersection of Rwsy 05–23, 09–27, 13–31.
<b>Mount Vernon</b> (Mount Vernon) .....	113.8/VNN	G	223	3.2	At intersection of taxiways B and B2.
<b>Peoria</b> (Greater Peoria Rgnl) .....	115.2/PIA	A/2000	100	4.9	Over intersection Rwsy 13–31 and 4–22.
<b>Quincy</b> (Quincy Rgnl–Baldwin Fld) .....	113.6/UIN	G	029	6.6	On W side of terminal ramp.
<b>Roberts</b> .....	116.8/RBS	A/2000	151	7.8	Over grain elevator in Paxton, IL.
<b>Rockford</b> (Chicago/Rockford Intl) .....	110.8/RFD	G	108	5.1	Over intersection of twys A/B/D.
<b>Samsville</b> (Mount Carmel Muni) .....	116.6/SAM	A/1500	063	18.4	Over intersection of Rwsy 04–22 and 13–31.
<b>Troy</b> (St Louis Rgnl) .....	116.0/TOY	A/1600	322	11	Over intersection of N/S and NW/SE rwsy.
<b>Vandalia</b> (Vandalia Muni) .....	114.3/VLA	A/1700	177	5.8	Over centerline at N end N/S rwy.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Chicago</b> (Midway) .....	111.0	G	
<b>Chicago</b> (O'Hare) .....	112.0	G	



# VOR RECEIVER CHECK INDIANA

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Boiler</b> (Purdue Univ) .....	115.1/BVT	A/1800	286	12	Over water twr in town of Fowler.
<b>Goshen</b> (Goshen Muni) .....	113.7/GSH	A/2000	090	10.7	Over center of E/W rwy.
<b>Hoosier</b> (Monroe County) .....	110.2/OOM	G	349	.9	On runup pad Rwy 17.
<b>Huntingburg</b> .....	109.2/HNB	A/2500	010	8	Over water tower S edge Jasper.
<b>Kokomo</b> (Kokomo Muni) .....	113.5/OKK	G	242	.6	On taxiway A at AER 05.
<b>Marion</b> (Marion Muni) .....	108.6/MZZ	G	206	.6	Runup Pad Rwy 04
<b>Muncie</b> (Delaware Co-Johnson Fld) .....	114.4/MIE	A/2500	181	5.8	Over intersection of highway and railroad.
	114.4/MIE	G	328	0.7	On taxiway A-4 on runup area for Rwy 14.
<b>Pocket City</b> (Evansville Rgnl) .....	113.3/PXV	A/2000	056	13	Over intersection of E/W and NE/SW rws.
<b>Terre Haute</b> (Sky King) .....	115.3/TTH	A/2000	300	7	Over intersection of E/W and N/S rws.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Fort Wayne Intl</b> .....	111.0	G	
<b>Indianapolis Intl</b> .....	109.6	G	

# MICHIGAN

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Alpena</b> (Alpena Co Rgnl) .....	108.8/APN	G	203	1.1	On runup for Rwy 01.
<b>Au Sable</b> (Oscoda-Wurtsmith) .....	116.1/ASP	G	249	.9	Approach end Rwy 6.
	116.1/ASP	G	063	1.0	Approach end Rwy 24.
<b>Battle Creek</b> (W.K. Kellogg) .....	109.4/BTL	A/2000	096	11.3	NS and EW highway intersection.
<b>Escanaba</b> .....	110.8/ESC	A/2500	002	14.5	Over microwave twr 1 NM S of Perkins.
<b>Gaylord</b> (Gaylord Rgnl) .....	109.2/GLR	G	077	.6	SE corner of ramp.
<b>Grand Rapids</b> (Gerald R Ford Intl) .....	115.95/GRR	A/2500	231	10	Over intersection of N/S highway & E/W road 1 NM W of Wayland.
<b>Houghton</b> (Houghton Co Meml) .....	112.8/CMX	A/2300	077	13.5	Over smoke stack.
<b>Kalamazoo</b> (Kalamazoo/Battle Creek Intl) ..	109.0/AZO	G	167	.7	On twy to Rwy 35.
<b>Lansing</b> (Capital City) .....	110.8/LAN	G	058	5.4	On Twy C; 500 E of apch end Rwy 06.
<b>Litchfield</b> .....	111.2/LFD	A/2000	328	17.5	Over intersection of NS/EW expressway.
<b>Manistique</b> (Schoolcraft County) .....	110.4/ISQ	A/2400	078	13.2	Over railroad intersection.
<b>Muskegon</b> (Muskegon County) .....	115.2/MKG	A/2000	272	8.4	Over intersection of NW/SE and NE/SW rws.
<b>Peck</b> (St Clair County Intl) .....	114.0/ECK	A/2000	166	22.5	Over apch end Rwy 04.



# VOR RECEIVER CHECK

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Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Pellston</b> (Cheboygan City-County) .....	111.8/PLN	A/2000	084	6.4	Over center of E/W rwy.
<b>Pellston</b> (Pellston Rgnl Arpt of Emmet Co) ...	111.8/PLN	G	241	6.4	At intersection of N/S and E/W twys.
<b>Pontiac</b> (Oakland Co Intl) .....	111.0/PSI	G	113	5.8	On circle on warmup pad apch end Rwy 27L.
	111.0/PSI	G	120	5.0	On circle on warmup pad apch end Rwy 09R.
<b>Saginaw</b> .....	112.9/MBS	A/1700	058	6.7	Over intersection US 10 and I-75.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Detroit City</b> .....	111.6	G	
<b>Detroit</b> (Detroit Metropolitan Wayne Co.)..	109.8	G	

# OHIO

## VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Buckeye</b> (Port Bucyrus-Crawford Co) .....	109.8/BUD	A/2500	027	10.5	Over intersection E/W grass strip and Rwy 04-22.
<b>Dryer</b> (Loraine County Rgnl) .....	113.6/DJB	G	222	1.3	At intersection of taxiway and ramp.
<b>Jefferson</b> (Ashtabula Co) .....	115.2/JFN	G	067	2.4	On ramp.
<b>Jefferson</b> (Germack) .....	115.2/JFN	A/2000	278	9.0	At intersection of E/W interstate highway and N-S highway south of town of Geneva Ohio.
<b>Mansfield</b> (Shelby Community) .....	108.8/MFD	A/2000	277	4.8	Over hangar NW corner of arpt.
<b>Mansfield</b> (Mansfield Lahm Rgnl) .....	108.8/MFD	G	134	4.7	At intersection of taxiways A and D.
<b>Springfield</b> (Springfield-Beckley Muni) .....	113.2/SGH	G	050	1.2	On NE taxiway abeam approach end Rwy 24.
<b>Waterville</b> (Fulton Co.) .....	113.1/VWV	A/1800	295	24.2	Over hangar on WSW side of arpt.
<b>Zanesville</b> (Zanesville Muni) .....	111.4/ZZV	A/2000	270	5.5	Over water tank.
	111.4/ZZV	G	028	.5	On taxiway near apch end of Rwy 22.



## VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Akron Canton Rgnl</b> .....	110.6	G	
<b>Cincinnati Muni Arpt Lunken Field</b> .....	108.4	G	
<b>Cleveland Hopkins Intl</b> .....	110.4	G	
<b>Columbus</b> (Port Columbus Intl.) .....	111.0	G or	
		A/2300–5000	Within 10 NM radius of airport.
<b>Dayton</b> (James M Cox Dayton Intl.) .....	111.0	G or	Within a 10 NM radius of arpt.
		A/2500–4000	
<b>Sidney</b> (Sidney Muni) .....	111.0	A/2500–4000	

## WISCONSIN

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Eau Claire</b> (Chippewa Valley Rgnl) .....	112.9/EAU	G	182	2.1	Center of ramp.
<b>Green Bay</b> (Austin Straubel Intl) .....	115.5/GRB	G	141	4.6	On Twy M1 at Rwy 18R apch end.
<b>Janesville</b> .....	114.3/JVL	A/1900	287	12.7	Over water tower N of Brodhead.
<b>Janesville</b> (Southern Wisconsin Rgnl) .....	114.3/JVL	G	035	4.3	On taxiway A1.
<b>Kenosha</b> (Sylvania) .....	109.2/ENW	A/2100	353	5.9	Over N/S interstate highway bridge over E/W highway N of arpt.
<b>LaCrosse</b> (La Crosse Muni) .....	108.4/LSE	G	356	1.0	Runup pad AER Rwy 18.
<b>Madison</b> (Dane Co Rgnl/Truax Fld) .....	108.6/MSN	G	151	0.6	On NE corner air national guard ramp adjacent to taxiway D.
<b>Manitowoc</b> (Manitowoc Co) .....	111.0/MTW	G	196	0.5	SW corner of terminal ramp.
<b>Oshkosh</b> (Wittman Rgnl) .....	111.8/OSH	G	282	0.6	On taxiway at Rwy 09 apch end
	111.8/OSH	G	173	0.7	On N/S taxiway abeam control tower.
<b>Rhineland</b> (Rhineland–Oneida Co) .....	109.2/RHI	G	212	0.5	At intersection of E–W taxiway at terminal.
<b>Sheboygan Falls</b> (Sheboygan Co Meml) .....	110.0/FAH	G	232	.4	On taxiway at Rwy 03 apch end.
<b>Stevens Point</b> (Stevens Point Muni) .....	110.6/STE	A/2500	257	12.1	Over N/S railroad and E/W road in Rudolph.
	110.6/STE	G	022	0.6	From AER 21.
<b>Wausau</b> (Central Wisconsin) .....	111.6/AUW	A/2800	222	5.5	Over intersection of N–S and E–W rwy.
<b>West Bend</b> .....	109.8/BJB	A/2500	220	7.6	Over microwave tower E of Slinger.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Milwaukee</b> (Gen Mitchell Intl) .....	109.0	G	



# PARACHUTE JUMPING AREAS

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>ILLINOIS</b>			
(c) Carmi Muni .....	19.7 NM; 298°Pocket City.....	9,500 AGL	3 NM radius. SR-SS weekends.
Deer Grove .....	25 NM; 343°Bradford .....	12,500	3 NM radius. SR-SS Year round.
Greenville Arpt .....	18 NM; 210°Vandalia .....	13,500	3 NM radius. Weekends and holidays, SR-1 hour after SS. <b>Kansas City Center 127.7</b>
(c) Hinckley Arpt .....	22 NM; 308°Joliet.....	14,500 AGL	2 NM radius. Mon-Fri 0800 to 1 hour after SS, Sat-Sun 0700 to 1 hour after SS.
(c) Minier, Illinois Valley Parachute Club Arpt .....	25 NM; 122°Peoria .....	15,000	Daily SR to 1 hour after SS.
(c) Ottawa, Skydive Chicago Arpt .....	23.1 NM; 250° Joliet.....	17,500 AGL	2 NM radius. SR to 1 hour past SS.
(c) Rantoul National Aviation Center-Frank Elliott Fld .....	16.5 NM; 019° Champaign .....	13,500	2 NM radius. Daily 0600-2200.
Sterling .....	16 NM; 206° Polo .....	12,000 AGL	Year round SR-SS. 10 NM radius.
Tampico .....	23 NM; 200°Polo .....	12,500	1 NM radius. 1000-SS daily.
(c) Taylorville, Taylorville Muni.....	24 NM; 138° Spinner .....	15,000	5 NM radius. SR-1 hr past SS.
(c) Vandalia, Vandalia Muni .....	6.2 NM; 178° Vandalia .....	15,000	5 NM radius. Fri, Sat, Sun and holidays, SR-½ hour past SS. <b>Kansas City Center 124.3</b>
<b>INDIANA</b>			
(c) Angola, Tri-State Steuben Co Arpt ....	33 NM; 040°Wolf Lake .....	14,500	5 NM radius, Mon, Wed, Fri, Sat, Sun 0900-SS.
Cloverdale, Swope Airstrip.....	25 NM; 085° Terre Haute .....	12,500	5 NM radius. SR-SS daily.
(c) Connersville .....	14 NM; 257° Richmond .....	13,500	5 NM radius. Daily SR-SS.
Crawfordsville, Crawfordsville Muni .....	27.2 NM; 290° Brickyard .....	15,000	3 NM radius. Fri-Sat-Sun SR-SS.
(c) Flora, Flora Muni .....	22.4 NM; 272° Kokomo .....	13,000	5 NM radius. Weekends and holidays, 0900-SS daily. <b>Grissom APP CON 121.05</b>
Franklin Flying Fld .....	17 NM; 220° Shelbyville .....	13,500	5 NM radius. SR-SS daily.
(c) Goshen Muni .....	10 NM; 090° Goshen .....	14,500 AGL	1 NM radius. Weds, Fri-Sat-Sun SR-SS. <b>South Bend Rgnl Tower 132.05</b>
(c) Greensburg Muni .....	25 NM; 145° Shelbyville .....	12,000 AGL	2 NM radius. 0900-2000 daily.
Hobart Sky Ranch Arpt.....	15 NM; 077° Chicago Heights ...	10,000 AGL	2 NM radius. Weds, weekends 0800-SS.
Kingsbury .....	23 NM; 230°Gipper .....	1,500	0.3 NM radius. Occasional use.
Mentone .....	26 NM; 183° Goshen .....	12,500	3 NM radius. SR-SS daily.
Muncie, Horizon Fld .....	10 NM; 360°Muncie .....	13,000	Daily 0600-1900.
(c) Richmond, Richmond Muni.....	0 NM; Richmond .....	14,500	3 NM radius. SR-1 hour after SS-daily.
Veedersburg, Songer Arpt.....	24 NM; 220°Boiler .....	10,000	5 NM radius. Weekends and holidays, SR-SS.
<b>MICHIGAN</b>			
(c) Allegan, Padgham Fld.....	13 NM; 072° Pullman .....	10,700	2 NM radius. Daily SR-SS.
East Tawas, Iosco Co Arpt .....	8 NM; 192° Au Sable.....	15,000	5 NM radius. May-Oct SR-SS daily.
Fowlerville .....	20 NM; 225° Flint .....	12,000	5 NM radius. Apr-Oct 0800-SS.
Fremont Muni .....	16.2 NM; 008° Muskegon .....	12,000	3 NM radius. Apr-Oct Sat-Sun SR-SS.
Harbor Springs .....	17 NM; 235° Pellston.....	12,000	3 NM radius. May-Sep daily SR-SS.



## PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
Marshall, Brooks Fld.....	14 NM; 107° Battle Creek.....	15,000	5 NM radius. Apr–Oct daily 0900–SS.
(c) Mount Pleasant Muni Arpt.....	Ø NM; Mount Pleasant.....	14,000	2 NM radius. Jan–Dec daily 0900–SS.
(c) Romeo.....	26 NM; 085° Pontiac.....	15,000	2 NM radius. Apr–Oct daily SR–SS.
(c) Saginaw, Saginaw Co H.W. Browne Arpt.....	11 NM; 125° Saginaw.....	12,000	2 NM radius. Apr–Nov daily SR–SS.
(c) Tecumseh, Meyers–Diver's.....	22 NM; 272° Carleton.....	17,000	5 NM radius. Apr–Oct daily SR–SS.
<b>OHIO</b>			
Alliance, Barber Arpt.....	9 NM; 155° Akron.....	13,500	5 NM radius. Mon, Wed, Thur, Fri and weekends SR–SS.
Alliance, Miller Arpt.....	10 NM; 139° Akron.....	13,500 AGL	5 NM radius. Daily SR–SS.
Belleville.....	15 NM; 168° Mansfield.....	8,500	5 NM radius. SR–SS weekend.
(c) Bowling Green, Bordner Arpt.....	8 NM; 212° Waterville.....	14,000	Daily. Radius 2 NM.
(c) Celina, Lakefield Arpt.....	26.5 NM; 298° Rosewood.....	14,000	1 NM radius. Daily SR–SS.
Centerburg, Chapman Mem.....	12 NM; 325° Appleton.....	12,000	SR–SS weekends.
(c) Chesapeake, Lawrence Co Airpark.....	26 NM; 052° Newcombe.....	11,000	1 NM radius. 0900–2300 Sat–Sun. 1600–2300 Wed–Fri.
(c) Circleville, Clark Dream Strip.....	13 NM; 332° Yellow Bud.....	17,500	2 NM radius. Wed 0600–Sun 2400. <b>Port Columbus Intl Tower 125.95</b>
Commercial Point.....	32 NM; 233° Appleton.....	10,000	0800–2100 Sat, Sun.
Findlay.....	9 NM; 355° Findlay.....	12,500 AGL	Daily.
Fulton County Arpt.....	24.5; 295° Waterville.....	10,500	Daily SR–SS.
(c) Garrettsville, Gates Arpt.....	11 NM; 172° Chardon.....	13,500 AGL	SR–SS daily.
Grafton, Mole Arpt.....	10 NM; 139° Dryer.....	12,500	0700–0930 daily.
Lebanon, Lebanon–Warren Co Arpt.....	21 NM; 280° Midwest.....	14,500 AGL	5 NM radius. Daily SR–SS.
Mansfield.....	4 NM; 132° Mansfield.....	3,000	3 NM radius. Tue–Fri 0800–2200. Unit training assemblies 1 weekend a month.
Ottawa, Putnam County Arpt.....	10.9 NM; 298° Findlay.....	10,500 AGL	SR–2400.
(c) Petersburg.....	16 NM; 294° Ellwood City.....	12,500 AGL	2 NM radius. Mon–Fri 1700–SS, weekends SR–SS.
(c) Rittman, Hilty Fld.....	21 NM; 314° Briggs.....	16,000 AGL	5 NM radius. Daily 1 hour before SR–1 hour after SS.
Salem, Phillis Lakefront Arpt.....	27 NM; 088° Briggs.....	10,000	Evening and weekends to SS
Stonelick Parachute Center.....	27 NM; 068° Cincinnati.....	10,000	SR–SS daily.
Sycamore.....	25 NM; 285° Mansfield.....	12,500 AGL	1 NM radius. Daily SR–SS.
Van Wert County.....	27.3 NM; 104° Fort Wayne.....	10,000	Weekdays 1600–SS, Weekends SR–SS
Vickery, Wrights Fld.....	12 NM; 270° Sandusky.....	10,000 AGL	SR–SS weekends.
(c) Xenia, Skydive Green County Inc.....	32 NM; 129° Dayton.....	12,500 AGL	Daily SR–2400.
<b>WISCONSIN</b>			
(c) Baldwin Arpt.....	45 NM; 095° Gopher.....	15,000 AGL	Wed–Fri 1500–½ hour past SS, Weekends SR–½ hour past SS.
(c) Bristol, Winfield Arpt.....	37.5 NM; 160° Badger.....	12,500 AGL	SR–½ hour past SS.
(c) Chippewa Falls, Wissota Arpt.....	9 NM; 070° Eau Claire.....	15,000	5 NM radius. Daily SR–1 hour past SS.
(c) East Troy Muni Arpt.....	20 NM; 190° Badger.....	14,500 AGL	SR–½ hour past SS.
Edgerton, Jana Arpt.....	20 NM; 142° Madison.....	11,000	10 NM radius. Wed–Sun & Holidays SR–SS.
(c) Fort Atkinson Muni.....	25 NM; 247° Badger.....	14,000	3 NM radius. Daily SR–SS.
Lake Delton.....	3 NM; 332° Dells.....	12,500	Daily May 15–Sept 25.
(c) Lancaster Muni Arpt.....	22.8 NM; 359° Dubuque.....	13,500 AGL	2 NM radius. Sat–Sun 0900–1 hr past SS. Wed and Fri 1500–1 hr past SS.
(c) Marshall, Mathaire Fld.....	16 NM; 058° Madison.....	12,500 AGL	SR–½ hour past SS.
(c) Oshkosh.....	8 NM; 293° Oshkosh.....	13,500 AGL	Daily SR–SS.
(c) Pulaski, Carter Arpt.....	5 NM; 350° Green Bay.....	12,000 AGL	Daily SR–SS.
(c) Shiocton.....	17 NM; 250° Green Bay.....	13,500	5 NM SR–SS daily.
(c) Superior, Richard I Bong.....	8 NM; 143° Duluth.....	12,500 AGL	3 NM radius. Daily SR–1 hour past SS.



The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown —route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

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## CG-21 WORLD AERONAUTICAL CHART

39th Edition, 24 Sep 2009

### OBSTRUCTIONS

**22 Oct 2009** Add obst 1348' MSL (600' AGL), 34°15'06"N, 84°59'12"W.

Change obst from 312' MSL to 1312' MSL, 33°35'33"N, 083°58'31"W.

**17 Dec 2009** No Major Changes.

### AIRPORTS

**22 Oct 2009** Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W. Change runway orientation to 01/19 at Halifax-Northampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W.

**17 Dec 2009** No Major Changes.

### NAVAIDS

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

### AIRSPACE

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

### SPECIAL USE AIRSPACE

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

### MILITARY TRAINING ROUTES

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

### MISCELLANEOUS

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

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**CHICAGO HELICOPTER ROUTE CHART****5th Edition, 12 May 2005****OBSTRUCTIONS****12 May 2005 – 7 Jul 2005** No Major Changes.**1 Sep 2005** Add obst 896' MSL (300' AGL) UC, 41°46'40"N, 87°49'16"W.**27 Oct 2005 – 5 Jul 2007** No Major Changes.**30 Aug 2007** Change group obst from 1780' MSL (1195' AGL) to 1973' MSL (1375' AGL) UC, 41°53'20"N, 87°37'36"W.**25 Oct 2007** Change obst from 1130' MSL (335' AGL) to 1195' MSL (400' AGL), 41°36'01"N, 87°58'44"W.**20 Dec 2007 – 31 Jul 2008** No Major Changes.**25 Sep 2008** Add obst 968' MSL (370' AGL) UC, 41°34'40"N, 87°31'33"W.**20 Nov 2008 – 17 Dec 2009** No Major Changes.**AIRPORTS****12 May 2005 – 7 Jul 2005** No Major Changes.**1 Sep 2005** Delete MILL ROSE arpt, 42°04'38"N, 88°09'35"W.**27 Oct 2005** Delete DARIEN-WOODRIDGE FIRE DEPT heliport, 41° 45'15"N, 88°00'26"W.**22 Dec 2005 – 5 Jul 2007** No Major Changes.**30 Aug 2007** Change CTAF freq 123.05 to 122.9 at SCHAUMBURG MUNI HELISTOP heliport, 42°02'53"N, 88°03'09"W.

Delete ADDISON FIRE DEPARTMENT STATION 3 heliport, 41°55'48"N, 88°02'28"W.

**25 Oct 2007 – 10 Apr 2008** No Major Changes.**5 Jun 2008** Delete LANDIS PLASTICS heli, 41°40'43"N, 87°45'45"W.

Delete CRYSTAL LAKE HOLIDAY INN heli, 42°13'14"N, 88°17'05"W.

Delete CLARK heli, 42°22'06"N, 87°59'30"W.

**31 Jul 2008 – 20 Nov 2008** No Major Changes.**15 Jan 2009**

Change CHICAGO O'HARE ATCT frequencies from 120.75(S), 126.9(N), 127.925 132.7 390.9 to 120.75 126.9 (CNTR TWR), 132.7 390.9 (CNTR TWR), 135.925 (N TWR), 41°58'51"N, 87°54'23"W.

**12 Mar 2009** No Major Changes.**7 May 2009** Delete SEARS MERCHANDISE GROUP heli, 42°04'35"N, 088°13'01"W.

Change CHICAGO O'HARE ATCT freq from 135.925(N TWR) to 128.15(N TWR), 41°58'51"N, 87°54'23"W.

**2 Jul 2009 – 17 Dec 2009** No Major Changes.**NAVAIDS****12 May 2005 – 17 Dec 2009** No Major Changes.**AIRSPACE****12 May 2005 – 25 Sep 2008** No Major Changes.**20 Nov 2008** Change CHICAGO Class B freq from 128.45 to 133.625.**12 Mar 2009 – 17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****12 May 2005 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****12 May 2005 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****12 May 2005 – 17 Dec 2009** No Major Changes.

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## CHICAGO SECTIONAL

### 79th Edition, 22 Oct 2009

**OBSTRUCTIONS****22 Oct 2009** No Major Changes.**17 Dec 2009** Add obst 1055' MSL(268' AGL)UC, 40°39'52"N, 90°44'58"W.

Add obst 1047' MSL(240' AGL)UC, 40°02'51"N, 86°49'03"W.

Add obst 1270' MSL(600' AGL)UC, 41°38'06"N, 87°02'59"W.

Add obst 955' MSL(255' AGL)UC, 41°19'16"N, 87°12'38"W.

Add obst 875' MSL(215' AGL)UC, 41°30'57"N, 87°59'55"W.

Add obst 1087' MSL(260' AGL)UC, 43°58'08"N, 89°14'37"W.

Add obst 901' MSL(268' AGL)UC, 40°48'02"N, 90°10'30"W.

Add obst 984' MSL(250' AGL)UC, 41°01'59"N, 89°13'51"W.

Add obst 773' MSL(260' AGL)UC, 40°48'28"N, 89°34'47"W.

Add obst 1078' MSL(300' AGL)UC, 41°18'40"N, 90°10'40"W.

Add obst 1017' MSL(260' AGL)UC, 40°53'36"N, 89°02'03"W.

Add obst 998' MSL(258' AGL)UC, 40°13'17"N, 88°57'55"W.

Add obst 1200' MSL(450' AGL)UC, 40°37'48"N, 88°46'53"W.

Add obst 795' MSL(298' AGL)UC, 40°13'44"N, 90°45'34"W.

Add obst 974' MSL(228' AGL)UC, 40°52'58"N, 89°07'42"W.

Add obst 1428' MSL(280' AGL)UC, 44°15'56"N, 89°25'00"W.

Add obst 1295' MSL(299' AGL)UC, 40°17'18"N, 85°00'34"W.

Add obst 1054' MSL(310' AGL)UC, 40°12'26"N, 87°05'29"W.

Add obst 1119' MSL(260' AGL)UC, 40°56'34"N, 85°39'55"W.

Add obst 1220' MSL(330' AGL)UC, 41°15'05"N, 85°38'22"W.

Add obst 1017' MSL(325' AGL)UC, 41°15'57"N, 86°44'10"W.

Add obst 945' MSL(250' AGL)UC, 41°04'17"N, 86°46'20"W.

Add obst 1105' MSL(260' AGL)UC, 40°39'20"N, 85°09'16"W.

Add obst 1509' MSL(349' AGL)UC, 44°03'59"N, 92°01'14"W.

Add obst 1680' MSL(350' AGL)UC, 43°39'34"N, 92°17'59"W.

Add obst 1650' MSL(350' AGL)UC, 43°34'13"N, 91°36'42"W.

Add obst 1599' MSL(349' AGL)UC, 43°55'34"N, 91°26'10"W.

Add obst 1526' MSL(350' AGL)UC, 43°40'08"N, 91°24'15"W.

Add obst 1508' MSL(350' AGL)UC, 43°33'02"N, 91°21'41"W.

Add obst 1559' MSL(349' AGL)UC, 44°06'11"N, 91°51'18"W.

Add obst 1598' MSL(350' AGL)UC, 43°52'58"N, 92°00'11"W.

Add obst 1570' MSL(350' AGL)UC, 43°48'39"N, 91°38'41"W.

Add windmill farm. 1142' UC is highest MSL, 40°38'31"N, 86°58'09"W.

Add windmill farm. 1111' UC is highest MSL, 41°06'48"N, 88°39'20"W.

Add windmill farm. 1230' UC is highest MSL, 40°41'52"N, 87°15'19"W.

Add windmill farm. 1163' UC is highest MSL, 40°56'36"N, 88°24'22"W.

**AIRPORTS****22 Oct 2009** No Major Change.**17 Dec 2009** Add CTAF 122.9 at FLYING FEATHERS arpt, 44°03'40"N, 88°11'42"W.

Delete KUNTZ arpt, 40°43'23"N, 88°52'00"W.

Delete MURKS arpt, 40°44'20"N, 90°22'50"W.

**NAVAIDS****22 Oct 2009** No Major Changes.**17 Dec 2009** Shutdown KETTLE MORaine NDB, 43°25'30"N, 88°07'38"W.**AIRSPACE****22 Oct 2009** No Major Changes.**17 Dec 2009** Revise PEORIA, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at 40°54'00"N, 89°59'00"W; to 40°53'31"N, 89°41'35"W; to 40°54'41"N, 89°35'28"W; to 40°52'16"N, 89°29'22"W; to 40°46'40"N, 89°27'38"W; to 40°44'01"N, 89°29'35"W; to 40°22'00"N, 89°32'00"W; to lat. 40°26'00"N, 90°07'00"W; to 40°34'00"N, 90°12'00"W; to 40°47'00"N, 90°08'00"W; to the point of beginning.

Revise WINONA, MN Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Winona Municipal Airport-Max Conrad Field, and within 8 miles southwest and 4 miles northeast of the 121° bearing from the airport extending from the 7-mile radius to 21 miles southeast of the airport, excluding that airspace within the La Crosse, WI Class D airspace area.

Revise PLATTEVILLE, WI Class E: That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Platteville Municipal Airport and within 4 miles each side of the 145° bearing from the airport extending from the 7.4-mile radius to 10.2 miles southeast of the airport.

**SPECIAL USE AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.



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**CHICAGO TERMINAL AREA CHART**  
**79th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRPORTS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**NAVAIDS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.

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**CINCINNATI SECTIONAL**  
**83rd Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**AIRPORTS****17 Dec 2009** No Major Changes.**NAVAIDS****17 Dec 2009** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.

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**CINCINNATI TERMINAL AREA CHART**  
**22nd Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**AIRPORTS****17 Dec 2009** No Major Changes.**NAVAIDS****17 Dec 2009** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.

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**CLEVELAND TERMINAL AREA CHART**  
**72nd Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRPORTS****22 Oct 2009** Delete SHENANDOAH AIRPARK arpt, 40°55'12"N, 82°28'44"W.**17 Dec 2009** No Major Changes.**NAVAIDS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.



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**DETROIT HELICOPTER ROUTE CHART****1st Edition, 4 Aug 2005****OBSTRUCTIONS****1 Sep 2005** No Major Changes.**27 Oct 2005** Add group obst 1009' MSL (388' AGL) UC, 42°03'58"N, 83° 23'40"W.**22 Dec 2005 – 12 Mar 2009** No Major Changes.**7 May 2009** Add obst 1293' MSL (330' AGL), 42°09'30"N, 84°01'31"W.**2 Jul 2009 – 17 Dec 2009** No Major Changes.**AIRPORTS****1 Sep 2005** Add SELFRIDGE ANGB ATCT 340.7, 42°36'46"N, 82°49'54"W.**27 Oct 2005** Delete HYNES arpt, 42°36'39"N, 83°43'58"W.**22 Dec 2005 – 8 Jun 2006** No Major Changes.**3 Aug 2006** Delete CTAF freq, 122.9 at SALINE arpt., 42°08'47"N, 83°47'31"W.**28 Sep 2006 – 10 May 2007** No Major Changes.**5 Jul 2007** Delete CARRIAGE LANE arpt, 42°27'52"N, 84°02'05"W.**30 Aug 2007 – 14 Feb 2008** No Major Changes.**10 Apr 2008** Delete FULLER heliport, 42°33'34"N, 83°10'40"W.**5 Jun 2008 – 31 Jul 2008** No Major Changes.**25 Sep 2008** Add SELFRIDGE ANGB ATCT freq 225.4, 42°36'30"N, 82°50'07"W.**20 Nov 2008 – 7 May 2009** No Major Changes.**2 Jul 2009** Delete INDEPENDENCE GREEN heliport, 42°28'12"N, 83°25'09"W. Delete COBO HALL heliport, 42°19'33"N, 83°02'52"W.**27 Aug 2009 – 17 Dec 2009** No Major Changes.**NAVAIDS****1 Sep 2005 – 13 Apr 2006** No Major Changes.**8 Jun 2006** Delete LAUREL NDB, 42°14'38"N, 83°02'51"W.**3 Aug 2006 – 17 Dec 2009** No Major Changes.**AIRSPACE****1 Sep 2005 – 15 Mar 2007** No Major Changes.**10 May 2007** Change DETROIT Class B freq from 124.9 to 127.5.**5 Jul 2007 – 17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****1 Sep 2005 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****1 Sep 2005 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****1 Sep 2005 – 16 Feb 2006** No Major Changes.**13 Apr 2006** Change MEF 1<sup>1</sup> to 1<sup>2</sup> in quadrant 42°00' – 42°15'N, 83°15' – 83°30' W.**8 Jun 2006 – 17 Dec 2009** No Major Changes.



## DETROIT SECTIONAL

### 79th Edition, 24 Sep 2009

**OBSTRUCTIONS**

**22 Oct 2009** Add obst 1193' MSL (285' AGL) UC, 41°32'32"N, 80°51'34"W.

Add obst 2540' MSL (260' AGL) UC, 41°53'03"N, 78°37'09"W.

Add obst 956' MSL (203' AGL), 42°41'02"N, 78°54'26"W.

Add obst 702' MSL (204' AGL), 42°57'23"N, 76°59'42"W.

Add obst 3226' MSL (400' AGL) UC, 40°01'35"N, 78°48'07"W.

Add obst 1001' MSL (394' AGL), 42°16'06"N, 82°16'30"W.

**17 Dec 2009** Add obst 1394' MSL (297' AGL) UC, 40°00'24"N, 83°47'26"W.

Add obst 1158' MSL (375' AGL) UC, 40°52'25"N, 84°29'02"W.

Add obst 996' MSL (394' AGL), 42°16'58"N, 81°59'30"W.

Add obst 900' MSL (255' AGL) UC, 43°46'10"N, 84°09'18"W.

Add obst 1613' MSL (225' AGL) UC, 42°09'02"N, 78°45'46"W.

Add obst 1529' MSL (260' AGL) UC, 42°42'18"N, 78°28'36"W.

Add obst 1429' MSL (260' AGL) UC, 42°39'36"N, 78°26'06"W.

Add obst 981' MSL (394' AGL), 42°28'11"N, 82°20'58"W.

Add obst 1745' MSL (254' AGL) UC, 41°34'42"N, 79°24'55"W.

Add obst 2925' MSL (410' AGL) UC, 40°18'05"N, 78°41'30"W.

**AIRPORTS**

**22 Oct 2009** Delete ZEITLER arpt, 43°29'24"N, 84°21'54"W.

Delete PEWANOGOWINK-BANKS arpt, 43°11'10"N, 83°54'04"W.

Delete SHENANDOAH AIRPARK arpt, 40°55'12"N, 82°28'44"W.

Delete MAYES arpt, 43°14'27"N, 84°52'48"W.

**17 Dec 2009** Delete WINDSOR ATCT freq 236.6, 42°16'32"N, 82°57'20"W.

Delete LONDON ATCT freq 236.6, 43°01'59"N, 81°09'04"W.

**NAVAIDS**

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

**AIRSPACE**

**22 Oct 2009** Revise MANSFIELD, OH class E airspace. That airspace extending upward from 700 feet above the surface within a 6.9-mile radius of Mansfield Lahm Regional Airport and within a 6.3-mile radius of Galion Municipal Airport, and within a 6.3-mile radius of Shelby Community Airport, and within a 6.3-mile radius of Willard Airport, and within 4 miles each side of the 137° bearing from Mansfield Lahm Regional Airport extending from the 6.9-mile radius to 11.1 miles southeast of the airport, and within 4 miles each side of the 317° bearing from Mansfield Lahm Regional Airport extending from the 6.9-mile radius to 10.7 miles northwest of the airport, and within 6.1 miles each side of the Mansfield VORTAC 307° radial extending from the 6.9-mile radius to 13.3 miles northwest of the VORTAC, and within 4.4 miles each side of the Mansfield VORTAC 130° radial extending from the 6.9-mile radius to 13.8 miles southeast of the VORTAC.

**17 Dec 2009** Add SOUTHERN ONTARIO LOW LEVEL CONTROL AREA. The airspace above 2500' to 6500' within the area bounded by a line beginning at : 43°28'13"N, 82°11'02"W Canada/USA boundary to 44°41'37"N, 78°49'42"W to 45°20'55"N, 78°06'29"W to 45°43'31"N, 77°57'20"W to 45°50'35"N, 77°52'01"W to 46°06'45"N, 77°25'45"W to 46°08'00"N, 77°15'00"W to 45°57'40"N, 76°55'40"W to 45°50'15"N, 76°16'00"W to 44°13'17"N, 76°11'30"W thence west along the Canada/USA boundary to 44°03'29"N, 76°28'00"W Canada/USA boundary to 44°07'28"N, 76°43'06"W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°27'11"N, 76°51'46"W to 44°17'04"N, 77°36'46"W to 44°02'24"N, 78°19'46"W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 43°38'05"N, 77°58'39"W thence west along the Canada/USA boundary to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

The airspace above 3500' within the area bounded by a line beginning at 43°28'13"N, 82°11'02"W thence north west along the Canada/USA boundary to 46°50'03"N, 84°50'20"W thence clockwise along the arc of a circle of 25 miles radius centered on 46°29'06"N, 84°30'34"W to 46°54'02"N, 84°33'00"W to 47°12'42"N, 80°50'02"W thence clockwise along the arc of a circle of 35 miles radius centered on 46°37'45"N, 80°47'54"W to 47°11'29"N, 80°34'23"W to 46°55'24"N, 79°11'54"W thence clockwise along the arc of a circle of 35 miles radius centered on 46°21'50"N, 79°26'11"W to 46°30'12"N, 78°37'04"W to 46°26'41"N, 77°15'00"W to 46°08'00"N, 77°15'00"W to 46°06'45"N, 77°25'45"W to 45°50'35"N, 77°52'01"W to 45°43'31"N, 77°57'20"W to 45°20'55"N, 78°06'29"W to 44°41'37"N, 78°49'42"W to 44°38'16"N, 78°59'27"W thence counter clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 43°53'03"N, 81°05'36"W to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

**SPECIAL USE AIRSPACE**

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

**MILITARY TRAINING ROUTES**

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

**MISCELLANEOUS**

**22 Oct 2009** No Major Changes.

**17 Dec 2009** Delete RP\* at GROVE CITY arpt, 41°08'45"N, 80°10'03"W.



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**DETROIT TERMINAL AREA CHART****72nd Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRPORTS****22 Oct 2009** No Major Changes.**17 Dec 2009** Delete WINDSOR ATCT freq 236.6, 42°16'32"N, 82°57'20"W.**NAVAIDS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRSPACE****22 Oct 2009** No Major Changes.

**17 Dec 2009** Add SOUTHERN ONTARIO LOW LEVEL CONTROL AREA. The airspace above 2500' to 6500' within the area bounded by a line beginning at 43°28'13"N, 82°11'02"W Canada/USA boundary to 44°41'37"N, 78°49'42"W to 45°20'55"N, 78°06'29"W to 45°43'31"N, 77°57'20"W to 45°50'35"N, 77°52'01"W to 46°06'45"N, 77°25'45"W to 46°08'00"N, 77°15'00"W to 45°57'40"N, 76°55'40"W to 45°50'15"N, 76°16'00"W to 44°13'17"N, 76°11'30"W thence west along the Canada/USA boundary to 44°03'29"N, 76°28'00"W Canada/USA boundary to 44°07'28"N, 76°43'06"W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°27'11"N, 76°51'46"W to 44°17'04"N, 77°36'46"W to 44°02'24"N, 78°19'46"W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 43°38'05"N, 77°58'39"W thence west along the Canada/USA boundary to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

**SPECIAL USE AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.

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**GREEN BAY SECTIONAL****79th Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**AIRPORTS****17 Dec 2009** No Major Changes.**NAVAIDS****17 Dec 2009** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.



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**KANSAS CITY SECTIONAL**  
**83rd Edition, 19 Nov 2009****OBSTRUCTIONS**

**17 Dec 2009** Add obst 1174' MSL (305' AGL) UC, 36°05'01"N, 96°35'42"W.  
Change to group obst 1178' MSL (335' AGL) UC, 37°01'30"N, 94°45'08"W.  
Add obst 1460' MSL (280' AGL), 36°32'20"N, 93°34'31"W.  
Add obst 1624' MSL (339' AGL) UC, 36°02'15"N, 93°55'05"W.  
Add obst 1591' MSL (315' AGL) UC, 36°53'31"N, 93°34'44"W.  
Add obst 1230' MSL (320' AGL) UC, 40°11'57"N, 95°02'00"W.

**AIRPORTS**

**17 Dec 2009** Delete TERAMIRANDA arpt, 36°36'30"N, 94°52'21"W.

**NAVAIDS**

**17 Dec 2009** No Major Changes.

**AIRSPACE**

**17 Dec 2009** Revise TOPEKA, KS Class D: That airspace extending upward from the surface to and including 3,600 feet MSL within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.  
Revise TOPEKA, KS Class E: That airspace within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Forbes Field Airport, and within 3.1 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles southeast of the airport, and within 3.5 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles northwest of the airport.  
Revise ST. LOUIS, MO Class E: That airspace extending upward from 700 feet above the surface within a 7.1-mile radius of Lambert-St. Louis International Airport, and within 4 miles southeast and 7 miles northwest of the Lambert-St. Louis International Airport Runway 24 ILS localizer course extending from the airport to 10.5 miles northeast of the ZUMAY LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert-St. Louis International Airport Runway 12R ILS localizer course extending from the airport to 10.5 miles northwest of the OBLIO LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert-St. Louis International Airport Runway 30L ILS localizer course extending from the airport to 8.7 miles southeast of the airport, and within a 6.8-mile radius of Spirit of St. Louis Airport, and within 3.9 miles each side of the 258° bearing from Spirit of St. Louis Airport extending from the 6.8-mile radius of Spirit of St. Louis Airport to 10.6 miles west of the airport, and within 2.6 miles each side of the 098° radial of the Foristell VORTAC extending from the 6.8-mile radius of Spirit of St. Louis Airport to 8.3 miles west of the airport, and within a 6.4-mile radius of St. Charles County Smartt Airport, and within a 6.9-mile radius of St. Louis Regional Airport, and within 4 miles each side of the 014° bearing from the Civic Memorial NDB extending from the 6.9-mile radius of St. Louis Regional Airport to 7 miles north of the airport, and within 4.4 miles each side of the 190° radial of the St. Louis VORTAC extending from 2 miles south of the VORTAC to 22.1 miles south of the VORTAC.

**SPECIAL USE AIRSPACE**

**17 Dec 2009** No Major Changes.

**MILITARY TRAINING ROUTES**

**17 Dec 2009** No Major Changes.

**MISCELLANEOUS**

**17 Dec 2009** No Major Changes.

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## LAKE HURON SECTIONAL

### 78th Edition, 24 Sep 2009

**OBSTRUCTIONS****22 Oct 2009** No Major Changes.**17 Dec 2009** Add obst 881' MSL (255' AGL) UC, 45°31'39"N, 84°08'31"W.  
Add obst 1009' MSL (230' AGL), 46°33'26"N, 84°19'23"W.**AIRPORTS****22 Oct 2009** No Major Changes.**17 Dec 2009** Delete NEW LOWELL arpt, 44°23'15"N, 79°56'36"W.

Delete SAULT STE MARIE ATCT 236.6, 46°29'06"N, 84°30'34"W. Wawa, ON VOR.

**NAVAIDS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRSPACE****22 Oct 2009** No Major Changes.

**17 Dec 2009** Add CONTROL AREA EXTENSION. The airspace within the area bounded by a circle of 25 miles radius centered on the following: 47°57'02"N, 84°49'23"W. Add SOUTHERN ONTARIO LOW LEVEL CONTROL AREA. The airspace above 2500' to 6500' within the area bounded by a line beginning at : 43°28'13"N, 82°11'02"W Canada/USA boundary to 44°41'37"N, 78°49'42"W to 45°20'55"N, 78°06'29"W to 45°43'31"N, 77°57'20"W to 45°50'35"N, 77°52'01"W to 46°06'45"N, 77°25'45"W to 46°08'00"N, 77°15'00"W to 45°57'40"N, 76°55'40"W to 45°50'15"N, 76°16'00"W to 44°13'17"N, 76°11'30"W thence west along the Canada/USA boundary to 44°03'29"N, 76°28'00"W Canada/USA boundary to 44°07'28"N, 76°43'06"W thence counter-clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°27'11"N, 76°51'46"W to 44°17'04"N, 77°36'46"W to 44°02'24"N, 78°19'46"W thence counter-clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 43°38'05"N, 77°58'39"W thence west along the Canada/USA boundary to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

The airspace above 6500' within the area bounded by a line beginning at 43°28'13"N, 82°11'02"W Canada/USA boundary to 43°53'04"N, 81°05'37"W thence counter-clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 42°34'30"N, 79°36'29"W thence west along the Canada/USA boundary to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

The airspace above 6500' within the area bounded by a line beginning at 42°34'30"N, 79°36'29"W Canada/USA boundary thence clockwise along the arc of a circle of 65 miles centered on 43°39'29"N, 79°37'54"W to 44°04'07"N, 78°14'48"W to 44°02'25"N, 78°19'46"W thence counter-clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 43°38'05"N, 77°58'39"W thence west along the Canada/ USA boundary to 42°34'30"36'29" Canada/USA boundary to point of beginning.

The airspace above 6,500' within the area bounded by a line beginning at: 44°38'17"N, 78°59'27"W to 44°41'37"N, 78°49'42"W to 45°20'55"N, 78°06'29"W to 45°43'31"N, 77°57'20"W to 45°50'35"N, 77°52'01"W to 46°06'45"N, 77°25'45"W to 46°08'00"N, 77°15'00"W to 45°57'40"N, 76°55'40"W to 45°50'15"N, 76°16'00"W to 44°13'17"N, 76°11'30"W thence west along the Canada/USA boundary to 44°03'29"N, 76°28'00"W Canada/USA boundary to 44°07'28"N, 76°43'06"W thence counter-clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°27'11"N, 76°51'46"W to 44°17'04"N, 77°36'46"W to 44°04'07"N, 78°14'47"W thence counter-clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 44°38'16"N, 78°59'27"W to point of beginning.

The airspace above 17000' within the area bounded by a line beginning at: 43°38'05"N, 77°58'39"W Canada/USA boundary thence clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°02'24"N, 78°19'46"W to 44°17'04"N, 77°36'46"W to 44°27'11"N, 76°51'46"W thence clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°07'28"N, 76°43'06"W to 44°03'29"N, 76°28'00"W thence west along the Canada/USA boundary to 43°38'05"N, 77°58'39"W Canada/USA boundary to point of beginning.

The airspace above 3500' within the area bounded by a line beginning at 43°28'13"N, 82°11'02"W thence north west along the Canada/USA boundary to 46°50'20"W thence clockwise along the arc of a circle of 25 miles radius centered on 46°29'06"N, 84°30'34"W to 46°54'02"N, 84°33'00"W to 47°12'42"N, 80°50'02"W thence clockwise along the arc of a circle of 35 miles radius centered on 46°37'45"N, 80°47'54"W to 47°11'29"N, 80°34'23"W to 46°55'24"N, 79°11'54"W thence clockwise along the arc of a circle of 35 miles radius centered on 46°21'50"N, 79°26'11"W to 46°30'12"N, 78°37'04"W to 46°26'41"N, 77°15'00"W to 46°08'00"N, 77°15'00"W to 46°06'45"N, 77°25'45"W to 45°50'35"N, 77°52'01"W to 45°43'31"N, 77°57'20"W to 45°20'55"N, 78°06'29"W to 44°41'37"N, 78°49'42"W to 44°38'16"N, 78°59'27"W thence counter-clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 43°53'03"N, 81°05'36"W to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

The airspace above 3500' to 6500' within the area bounded by a line beginning at 43°53'03"N, 81°05'37"W thence clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 44°38'16"N, 78°59'28"W to 43°53'03"N, 81°05'37"W to point of beginning.

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**SPECIAL USE AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.

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**MINNEAPOLIS-ST. PAUL TERMINAL AREA CHART****72nd Edition, 2 Jul 2009****OBSTRUCTIONS****2 Jul 2009 – 17 Dec 2009** No Major Changes.**AIRPORTS****2 Jul 2009 – 17 Dec 2009** No Major Changes.**NAVAIDS****2 Jul 2009 – 17 Dec 2009** No Major Changes.**AIRSPACE****2 Jul 2009 – 27 Aug 2009** No Major Changes.

**22 Oct 2009** Revise MINNEAPOLIS, MN. Class E. That airspace extending upward from 700 feet above the surface within a 20-mile radius of the Minneapolis-St. Paul International Airport (Wold-Chamberlain) Airport DME antenna, and within a 6.5-mile radius of the Anoka County-Blaine Airport (Janes Field), and within 4 miles each side of the 001° bearing from the Anoka County-Blaine Airport (Janes Field) extending from the 6.5-mile radius to 9.9 miles north of the airport, and within a 6.3-mile radius of the Lake Elmo Airport, and within a 6.4-mile radius of the Airlake Airport, and within 3.3 miles each side of the 084° bearing from the Farmington VORTAC extending from the 6.4-mile radius to 14.8 miles east of the Airlake Airport.

**17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 17 Dec 2009** No Major Changes.



**PITTSBURGH TERMINAL AREA CHART****72nd Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009** No Major Changes.**17 Dec 2009** Add obst 1154' MSL (328'AGL)UC, 40°28'38"N, 79°53'01"W.**AIRPORTS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**NAVAIDS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 17 Dec 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.

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**ST. LOUIS SECTIONAL****81st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**AIRPORTS****17 Dec 2009** No Major Changes.**NAVAIDS****17 Dec 2009** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.

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## ST. LOUIS TERMINAL AREA CHART

### 73rd Edition, 17 Dec 2009

**OBSTRUCTIONS**

17 Dec 2009 No Major Changes.

**AIRPORTS**

17 Dec 2009 No Major Changes.

**NAVAIDS**

17 Dec 2009 No Major Changes.

**AIRSPACE**

17 Dec 2009 No Major Changes.

**SPECIAL USE AIRSPACE**

17 Dec 2009 No Major Changes.

**MILITARY TRAINING ROUTES**

17 Dec 2009 No Major Changes.

**MISCELLANEOUS**

17 Dec 2009 No Major Changes.

## TWIN CITIES SECTIONAL

### 78th Edition, 2 Jul 2009

**OBSTRUCTIONS**

2 Jul 2009 No Major Changes.

27 Aug 2009 Add windmill farm. 2608' is highest MSL, 45°57'36"N, 98°58'15"W.

22 Oct 2009 Add obst 1580' MSL (305' AGL) UC, 45°20'57"N, 95°15'14"W.

Add obst 1981' MSL (295' AGL) UC, 46°23'06"N, 100°37'17"W.

Add obst 2414' MSL (340' AGL) UC, 48°52'37"N, 100°03'24"W.

Add obst 2514' MSL (340' AGL) UC, 48°56'57"N, 100°03'14"W.

Add obst 2361' MSL (260' AGL) UC, 47°34'40"N, 100°36'13"W.

Add obst 2237' MSL (260' AGL) UC, 47°24'38"N, 100°35'22"W.

Add obst 2238' MSL (260' AGL) UC, 47°32'29"N, 100°14'40"W.

Add obst 2334' MSL (310' AGL) UC, 47°23'02"N, 100°16'57"W.

Add windmill farm. 2118' is highest MSL, 48°30'23"N, 99°54'54"W.

17 Dec 2009 Add obst 1565' MSL (305' AGL) UC, 47°44'50"N, 95°46'57"W.

Add obst 1665' MSL (305' AGL) UC, 47°49'41"N, 93°09'55"W.

Add obst 1450' MSL (305' AGL) UC, 48°24'44"N, 96°10'04"W.

Add obst 1763' MSL (469' AGL) UC, 46°53'17"N, 92°30'38"W.

Add obst 1765' MSL (350' AGL) UC, 47°39'05"N, 92°51'55"W.

Add obst 1504' MSL (350' AGL) UC, 45°32'56"N, 96°19'27"W.

**AIRPORTS**

2 Jul 2009 – 22 Oct 2009 No Major Changes.

17 Dec 2009 Delete PRUETZ arpt, 46°17'19"N, 98°56'31"W.

Change CTAF 126.05 to 132.4 at ANOKA COUNTY-BLAINE arpt 45°08'41"N, 93°12'36"W.

**NAVAIDS**

2 Jul 2009 – 17 Dec 2009 No Major Changes.

**AIRSPACE**

2 Jul 2009 – 27 Aug 2009 No Major Changes.

22 Oct 2009 Revise MINNEAPOLIS, MN. Class E. That airspace extending upward from 700 feet above the surface within a 20-mile radius of the Minneapolis-St. Paul International Airport (Wold-Chamberlain) Airport DME antenna, and within a 6.5-mile radius of the Anoka County-Blaine Airport (Janes Field), and within 4 miles each side of the 001° bearing from the Anoka County-Blaine Airport (Janes Field) extending from the 6.5-mile radius to 9.9 miles north of the airport, and within a 6.3-mile radius of the Lake Elmo Airport, and within a 6.4-mile radius of the Airlake Airport, and within 3.3 miles each side of the 084° bearing from the Farmington VORTAC extending from the 6.4-mile radius to 14.8 miles east of the Airlake Airport.

17 Dec 2009 No Major Changes.

**SPECIAL USE AIRSPACE**

2 Jul 2009 – 17 Dec 2009 No Major Changes.

**MILITARY TRAINING ROUTES**

2 Jul 2009 – 17 Dec 2009 No Major Changes.

**MISCELLANEOUS**

2 Jul 2009 – 17 Dec 2009 No Major Changes.

17 Dec 2009 Change MEF 2<sup>5</sup> to 2<sup>7</sup> in quadrant 45°30'00"N, 99°00'00"W.

Change MEF 2<sup>7</sup> to 2<sup>8</sup> in quadrant 45°30'00"N, 98°30'00"W.

Change MEF 2<sup>2</sup> to 2<sup>3</sup> in quadrant 48°00'00"N, 99°30'00"W.



## SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

## UNITED STATES

FACILITY NAME	CHART & PANEL
Frankfort, IL (LL40)	L-28H
Chicago App/Dep Con 133.1 285.6	
Glasgow Industrial, MT (Ø7MT)	H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
USAF Academy Bullseye Aux Airstrip, CO (CO90)	L-10F
ASOS 118.325	
West Kentucky Airpark, KY (5KY3)	L-16I
Memphis Center App/Dep Con 133.65 292.15	
William P Gwinn, FL (Ø6FA)	H-8I, L-23C
Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z)	
Gnd Con 121.65 279.25	

## CANADA

FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX)	H-1B, L-12F
ATIS 119.8 (1500-0700Z)	
Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z) Gnd Con 121.8	
MF 119.4 295.0 (0700-1500Z) (Shape irregular to 4500')	
Amos/Magny, QC (CYEY)	H-11B
Montreal Center App/Dep Con 125.9	
Atikokan Muni, ON (CYIB)	L-14I
MF 122.3 (5 NM to 4500' No ground station)	
Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31D
AWOS 122.55 (Pvt)	
Toronto Center App/Dep Con 124.025	
Bar River, ON (CPF2)	L-31C
Toronto Center App/Dep Con 132.65	
Bathurst, NB (CZBF)	L-32J
Moncton Center App/Dep Con 134.25	
Boundary Bay, BC (CZBB)	H-1B, L-1E
ATIS 125.5 (1500-0700Z)	
Vancouver App/Dep Con 132.3 363.8	
Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z) Gnd Con 124.3	
MF 118.1 (0700-1500Z to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500')	
Brampton, ON (CNC3)	L-31D
Toronto Trml App/Dep Con 119.3 253.1	
Brandon Muni, MB (CYBR)	H-2H
Winnipeg Center App/Dep Con 132.25 285.4	
MF 122.1 (5 NM to 4000')	
Brantford, ON (CYFD)	L-31D
Toronto Trml App/Dep Con 128.27	
Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)	L-32G
Montreal Center App/Dep Con 134.675	
Bromont, QC (CZBM)	L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
Burlington Airpark, ON (CZBA)	L-31D
Toronto Center App/Dep Con 119.3 253.1	
Castlegar, BC (CYCG)	H-1C
Vancouver Center App/Dep Con 134.2 227.3	
MF 122.1 (5 NM to 6500')	
Centralia/James T. Fld Muni, ON (CYCE)	H-10G, 11B, L-31D
Toronto Center App/Dep Con 135.30	
Charlottetown, PE (CYYG)	H-11E, L-32J
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
Chatham-Kent, ON (CNZ3)	H-10G, L-30G
Cleveland Center App/Dep Con 132.25	



FACILITY NAME	CHART & PANEL
<b>Collingwood, ON</b> (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
<b>Cornwall Rgnl, ON</b> (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
<b>Cranbrook/Canadian Rockies Intl, BC</b> (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
<b>Debert, NS</b> (CCQ3) Halifax Trml App/Dep Con 119.2	H-11E, L-32J
<b>Digby, NS</b> (CYID) Moncton Center App/Dep Con 123.9	L-32J
<b>Downsview, ON</b> (CYZD) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 MF 126.2 (1300-2300Z±, 3 NM to 1700')	H-11B, L-31E
<b>Drummondville, QC</b> (CSC3) Montreal Center App/Dep Con 132.35	L-32H
<b>Earlton (Timiskaming Rgnl), ON</b> (CYXR) MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
<b>Elliot Lake Muni, ON</b> (CYEL) Toronto Center App/Dep Con 135.4	L-31C
<b>Fort Frances Muni, ON</b> (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
<b>Fredericton Intl, NB</b> (CYFC) ATIS 127.55 Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1200-2000Z, DT 1100-1900Z) Gnd Con 121.7 (Ltd hrs) MF 119.0 (2000-1200Z, DT 1900-1100Z 5 NM to 3500')	H-11E, L-32I
<b>Goderich, ON</b> (CYGD) Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
<b>Greenwood, NS</b> (CYZX) ATIS 128.85 244.3 (1100-0000Z±) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	H-11E, L-32J
<b>Grimsby Air Park, ON</b> (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
<b>Halifax/Shearwater, NS</b> (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
<b>Halifax/Stanfield Intl, NS</b> (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95 Apron Advisory 122.125	H-11E, L-32J
<b>Hamilton, ON</b> (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
<b>Kingston, ON</b> (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z±) MF 122.5 (1115-0400Z± 5 NM to 3300')	H-11C, L-31E, 32F
<b>Kitchener/Waterloo, ON</b> (CYKF) ATIS 125.1 (1200-0400Z±) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z±) Gnd Con 121.8 MF 126.0 (0400-1200Z± 5 NM to 4000')	H-11B, L-31D
<b>Lachute, QC</b> (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
<b>La Tuque, QC</b> (CYLQ) Montreal Center App/Dep Con 134.5	H-11C
<b>Langley, BC</b> (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E



FACILITY NAME	CHART & PANEL
<b>Leamington, ON (CLM2)</b> Cleveland Center App/Dep Con 132.45	L-30F
<b>Lethbridge, AB (CYQL)</b> ATIS 124.4 (1300-0545Z†) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
<b>Lindsay, ON (CNF4)</b> Toronto Center App/Dep 134.25	L-31E, L-32F
<b>Liverpool/South Shore Rgnl, NS (CYAU)</b> Moncton Center App/Dep Con 123.9	L-32J
<b>London, ON (CYXU)</b> ATIS 127.8 (1120-0345Z†) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z†) Gnd Con 121.9 MF 119.4 (0345-1120Z† 5 NM to 3000')	H-10G, 11B, L-30G, 31D
<b>Manitowaning/Manitoulin East Muni, ON (CYEM)</b> Toronto Center App/Dep 135.4 260.9	L-31C
<b>Maniwaki, QC (CYMW)</b> Montreal Center App/Dep Con 126.57	L-32G
<b>Mascouche, QC (CSK3)</b> MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
<b>Medicine Hat, AB (CYXH)</b> AWOS 124.875 (0345-1245Z†) MF 122.2 (1245-0345Z† 5 NM to 5400')	H-1D
<b>Midland/Huron, ON (CYEE)</b> Toronto Center App/Dep 124.025	L-31D
<b>Miramichi, NB (CYCH)</b> Moncton Center App/Dep Con 123.7	H-11E, L-32J
<b>Moncton/Greater Moncton Intl, NB (CYQM)</b> ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
<b>Mont-Laurier, QC (CSD4)</b> Montreal Center App/Dep Con 126.57	L-32G
<b>Montreal Intl (Mirabel), QC (CYMX)</b> ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)</b> ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Cinc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/St-Hubert, QC (CYHU)</b> ATIS 124.9 (Apr-Oct 1045-0500Z†, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z†, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z†, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
<b>Muskoka, ON (CYQA)</b> AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31D
<b>Nanaimo, BC (CYCD)</b> Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z† (5 NM to 2500')	H-1B, L-1E
<b>North Bay, ON (CYYB)</b> ATIS 124.9 (1130-0300Z†) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z† 7 NM to 5000')	L-31E
<b>Oshawa, ON (CYOO)</b> ATIS 125.675 (1130-0330Z†) Toronto Trml App Con 133.4 Tower 120.1 (1130-0330Z†) Gnd Con 118.4 Toronto Trml Dep Con 133.4 MF 120.1 (0330-1130Z† 5 NM to 3000')	H-11B, L31D



FACILITY NAME	CHART & PANEL
<b>Ottawa/Carp, ON (CYRP)</b> ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5	L-31E, 32F
<b>Ottawa/Batineau, QC (CYND)</b> Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
<b>Ottawa/MacDonald-Cartier Intl, ON (CYOW)</b> ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 120.1 341.3 Gnd Con 121.9 Cinc Del 119.4 Ottawa Dep Con 128.175	L-11C
<b>Owen Sound/Billy Bishop Rgnl, ON (CYOS)</b> Toronto Center App/Dep Con 132.575 290.6	L-31D
<b>Pelee Island, ON (CYPT)</b> Cleveland Center App/Dep Con 126.35 360.0	L-30F
<b>Pembroke, ON (CYTA)</b> Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
<b>Penticton, BC (CYPF)</b> Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
<b>Peterborough, ON (CYPQ)</b> AWOS 126.925 Toronto Center App/Dep Con 134.25	H-11B, L-31E, 32F
<b>Pincher Creek, AB (CZPC)</b> Edmonton Center App/Dep Con 132.75 265.2	H-1D
<b>Pitt Meadows, BC (CYPK)</b> ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500')	L-1E
<b>Quebec/Jean Lesage Intl, QC (CYQB)</b> ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 (185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
<b>Riviere Du Loup, QC (CYRI)</b> AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
<b>Rouyn Noranda, QC (CYUY)</b> Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
<b>Saint John, NB (CYSJ)</b> Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
<b>Sarnia (Chris Hadfield), ON (CYZR)</b> Toronto Center 134.375	H-10G, 11B, L-30F
<b>Sault Ste Marie, ON (CYAM)</b> ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000')	H-2K, L-31B
<b>Sherbrooke, QC (CYAM)</b> AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
<b>South Renfrew Muni, ON (CNP3)</b> Montreal Center App/Dep 124.275	L-31E, 32F
<b>Southport, MB (CYPG)</b> ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8	H-2H



FACILITY NAME	CHART & PANEL
<b>Springwater Barrie Airport, ON</b> (CNA3) Toronto Center App/Dep Con 124.025	L-31D
<b>St. Catharines/Niagara District, ON</b> (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z‡ 5 NM to 3300')	H-10H, 11B, L-31E
<b>St. Frederic, QC</b> (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L-32H
<b>St. Georges, QC</b> (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
<b>St. Jean, QC</b> (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7	L-32G
<b>Sudbury, ON</b> (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
<b>Summerside, PE</b> (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
<b>Thunder Bay, ON</b> (CYQT) ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 (0400-1100Z‡) Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	H-2J, L-14J
<b>Timmins, ON</b> (CYTS) ATIS 124.95 (1000-0500Z‡) Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	H-11B
<b>Toronto/Buttonville Muni, ON</b> (CYKZ) ATIS 127.1 (1200-0400Z‡) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31E
<b>Toronto/City Centre, ON</b> (CYTZ) ATIS 133.6 (1130-0400Z‡) App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	L-31E
<b>Toronto/Lester B Pearson Intl, ON</b> (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200-0400Z‡) VFR Advisory 119.3 133.4	H-11B, L-31D
<b>Trenton, ON</b> (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4	H-11C, L-31E, 32F
<b>Trenton/Mountain View, ON</b> (CPZ3) Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
<b>Trois-Rivieres, QC</b> (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
<b>Val-d'Or, QC</b> (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000')	H-11B
<b>Vancouver Intl, BC</b> (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Cinc Del 121.4	H-1B, L-1E



FACILITY NAME	CHART & PANEL
<b>Victoria Intl, BC (CYYJ)</b> ATIS 118.8 (1400-0800Z‡) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
<b>Victoriaville, QC (CSR3)</b> Montreal Center App Con 132.35	L-32H
<b>Waterville/Kings Co Muni, NS (CCW3)</b> Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
<b>Warton, ON (CYVY)</b> Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
<b>Windsor, ON (CYQG)</b> ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
<b>Yarmouth, NS (CYQI)</b> Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

## MEXICO

FACILITY NAME	CHART & PANEL
<b>Abraham Gonzalez Intl (MMCS)</b> Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
<b>Del Norte Intl (MMAN)</b> ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6	H-7B, L-20G
<b>Durango Intl (MMDO)</b> ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
<b>General Abelardo L Rodriguez Intl (MMTJ)</b> ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Cinc Del 122.35 Tijuana Info 132.1	H-4H, L-4H
<b>General Lucio Blanco Intl (MMRX)</b> Reynosa App Con 118.8 Reynosa Tower 118.8	H-7B, L-20H
<b>General Mariano Escobedo Intl (MMMY)</b> ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H-7B, L-20G
<b>General R Fierro Villalobos Intl (MMCU)</b> ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
<b>General Rodolfo Sanchez Taboada Intl (MMML)</b> ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
<b>General Servando Canales (MMMA)</b> Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
<b>Plan De Guadalupe Intl (MMIO)</b> Saltillo App Con 127.4 Saltillo Tower 118.4	H-7B
<b>Quetzalcoatl Intl (MMNL)</b> Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
<b>Torreon Intl (MMTC)</b> App Con 119.6 Tower 118.5	H-7A











In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

## GENERAL INFORMATION





### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ★. To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

### CHART CURRENCY INFORMATION

FAA procedure amendment number  Amdt 11A 99365  Date of latest change  
 Orig 00365 

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

### MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.



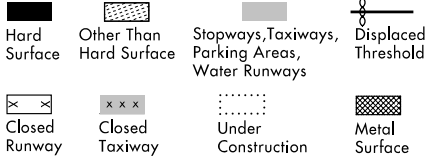
09071

# LEGEND

## INSTRUMENT APPROACH PROCEDURES (CHARTS)

### AIRPORT DIAGRAM

#### Runways

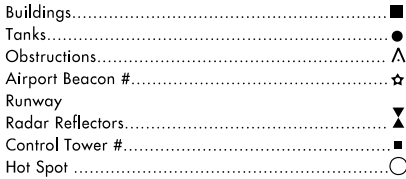


**ARRESTING GEAR:** Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



#### ARRESTING SYSTEM

#### REFERENCE FEATURES



# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U

Helicopter Alighting Areas (circle with H, square with H, triangle with H, square with H)

Negative Symbols used to identify Copter Procedures landing point..... (circle with H, square with H, triangle with H, square with H)

Runway Threshold elevation.....THRE 123

Runway TDZ elevation.....TDZE 123

Runway Slope.....0.3% DOWN

(shown when runway slope is greater than or equal to 0.3%)

NOTE:

Runway Slope measured to midpoint on runways 8000 feet or longer.

**U.S. Navy Optical Landing System (OLS)** "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

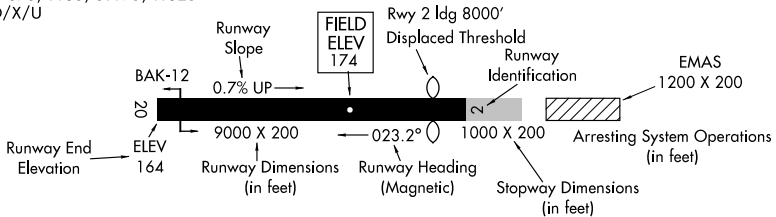
True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FUP. (Foreign Only)



Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

# LEGEND



## AIRPORT DIAGRAMS

## HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HOT<sup>1</sup>", "HOT<sup>2</sup>", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>ILLINOIS</b>		
CHICAGO		
CHICAGO-OHARE INTL (ORD)	HOT <sup>1</sup>	Taxiing traffic on Twy R cannot stop on Twy R between Rwy 9R-27L and Rwy 4L-22R.
	HOT <sup>2</sup>	Rwy 27L arrivals prohibited from turning onto Rwy 4L-22R without ATC clearance.
	HOT <sup>3</sup>	Aircraft northeast bound on Twy B turning right onto Twy H use caution – close proximity to Rwy 9R/27L.
	HOT <sup>4</sup>	Landing Rwy 22R traffic must receive clearance to cross Rwy 9R-27L on Twy A1.
	HOT <sup>5</sup>	Rwy 14L arrivals exiting Twy P4 use caution – close proximity to Rwy 9R-27L.
	HOT <sup>6</sup>	Aircraft northeast bound on Twy P turning left onto Twy H use caution – close proximity to Rwy 9R/27L.
	HOT <sup>7</sup>	Aircraft turning left onto Twy K from Twy T10 use caution to avoid inadvertent turn onto Twy M.
	HOT <sup>8</sup>	Twy S5 – north bound traffic only exiting Rwy 4R.
	HOT <sup>9</sup>	Traffic inbound to the terminals from Twy G and Twy E can expect a right turn on Twy Z to avoid active rwy's.
	HOT <sup>10</sup>	Intersection of Rwy 14L and Rwy 27R – Rwy 14L not an exit. Rwy 9L-27R exits located at the far ends of the rwy.
MOLINE		
QUAD CITY INTL (MLI)	HOT <sup>1</sup>	Rwy 31 Non-standard hold position. Distance to edge of rwy 698'.
<b>INDIANA</b>		
EVANSVILLE		
EVANSVILLE RGNL (EVV)	HOT <sup>1</sup>	Pilots taxiing to Rwy 09 enter the rwy mid-field. Do not taxi to the "numbers" without ATC clearance. Rwy 09-27 is a short distance from the General Aviation Ramp-use appropriate vigilance.
	HOT <sup>2</sup>	Pilots cleared to taxi to Rwy 27 sometimes enter the Rwy 27 without a clearance.
	HOT <sup>3</sup>	Rwy 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance.
	HOT <sup>4</sup>	Rwy 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance.
<b>MICHIGAN</b>		
JACKSON		
JACKSON CO-REYNOLDS FLD (JXN)	HOT <sup>1</sup>	Caution confusing signage.
	HOT <sup>2</sup>	No signage.



## WISCONSIN

JANESVILLE SOUTHERN WISCONSIN RGNL (JVL)	HOT <sup>1</sup>	Rwy 32 and Rwy 36 approach ends are closely aligned and may be confused when lining up for departure.
MILWAUKEE GENERAL MITCHELL INTL (MKE)	HOT <sup>1</sup>	Pilots taxiing northbound on Twy E for an intersection departure on Rwy 19R at Twy V can end up entering Rwy 7L-25R if they miss the right turn for Twy V. To avoid a runway incursion, pilots on Twy E should use extreme caution approaching Rwy 7L-25R.
	HOT <sup>2</sup>	Use caution in the area of Twy M and Rwy 1L-19R. Pavement widens out as the taxiway approaches the runway and may cause confusion.

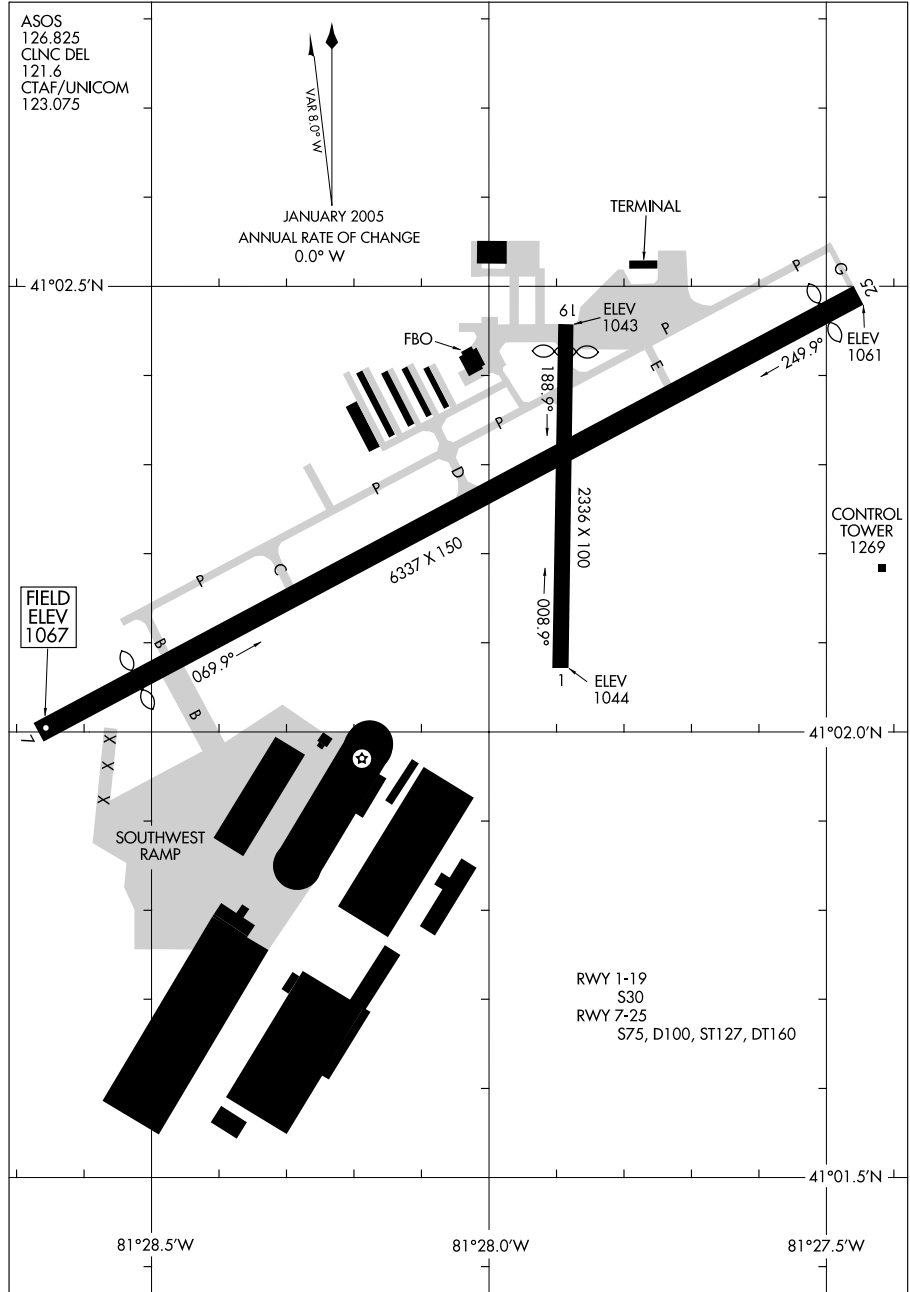


09071

AIRPORT DIAGRAM

AL-6 (FAA)

AKRON FULTON INTL (AKR)  
AKRON, OHIO



AIRPORT DIAGRAM

09071

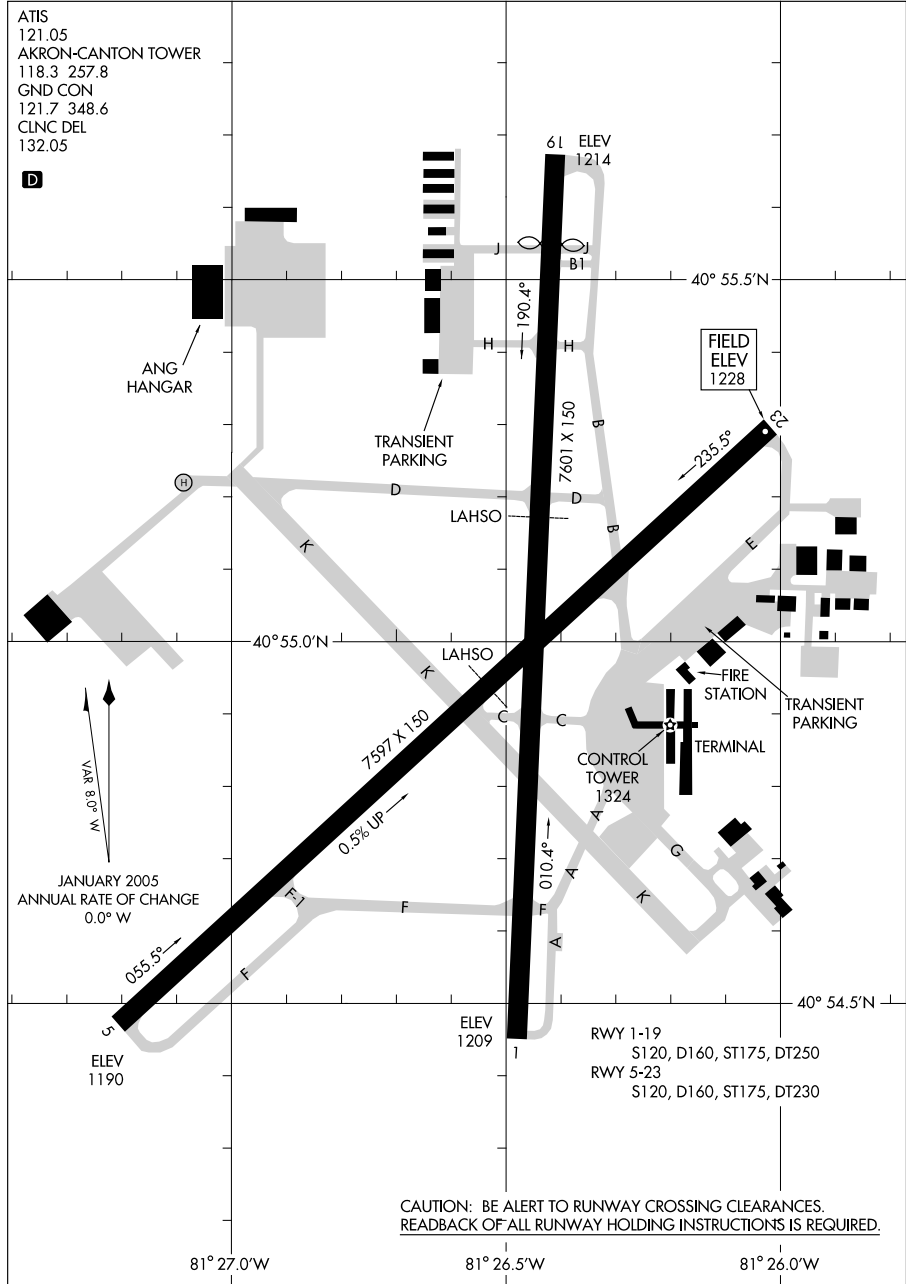
AKRON, OHIO  
AKRON FULTON INTL (AKR)



09015

## AIRPORT DIAGRAM

AL-638 (FAA)

AKRON-CANTON RGNL (CAK)  
AKRON, OHIO

## AIRPORT DIAGRAM

09015

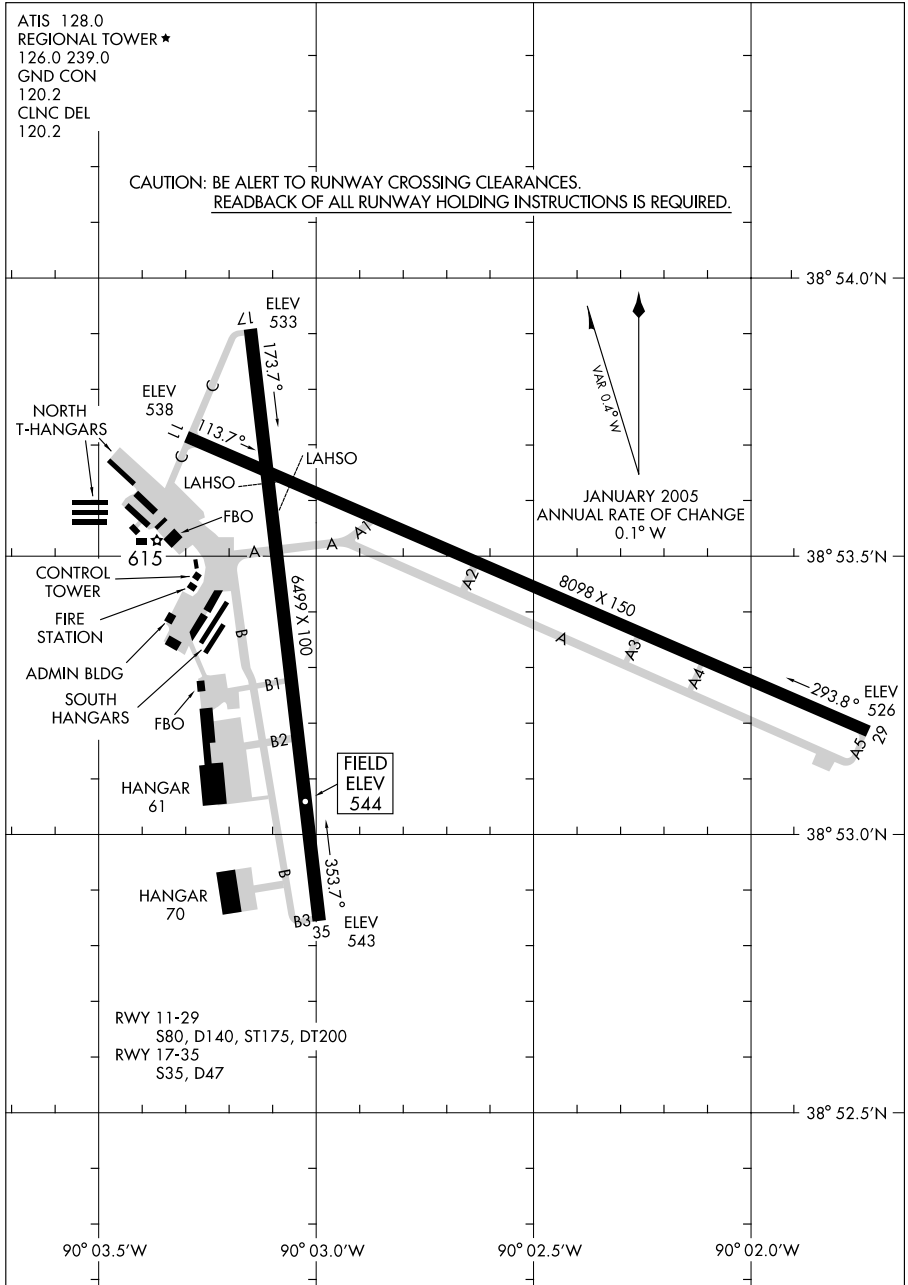
AKRON, OHIO  
AKRON-CANTON RGNL (CAK)



08269

## AIRPORT DIAGRAM

AL-5178 (FAA)

ALTON/ST. LOUIS RGNL (ALN)  
ALTON/ST. LOUIS, ILLINOIS

## AIRPORT DIAGRAM

08269

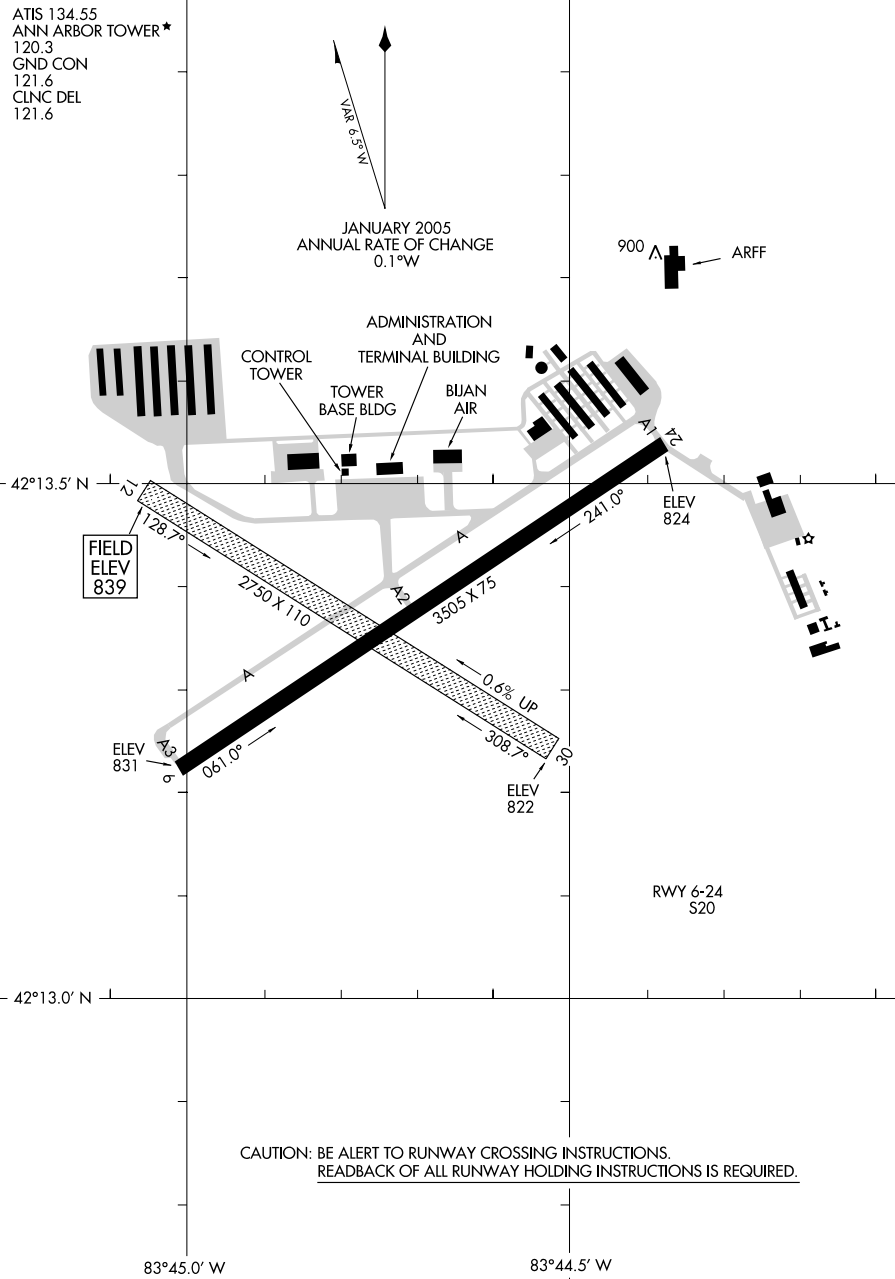
ALTON/ST. LOUIS, ILLINOIS  
ALTON/ST. LOUIS RGNL (ALN)



08045

## AIRPORT DIAGRAM

AL-5506 (FAA)

ANN ARBOR MUNI (ARB)  
ANN ARBOR, MICHIGAN

## AIRPORT DIAGRAM

08045

ANN ARBOR, MICHIGAN  
ANN ARBOR MUNI (ARB)

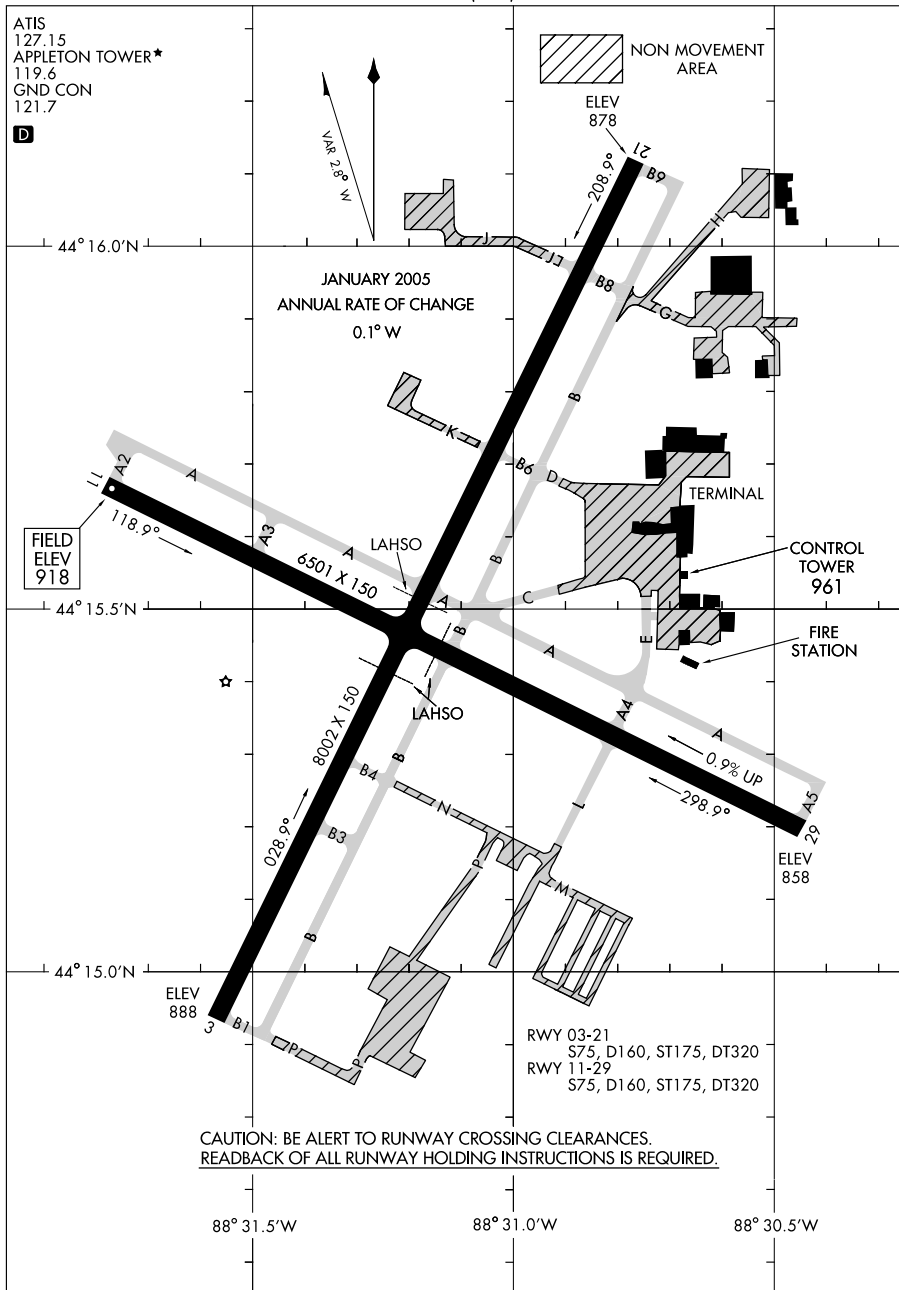


09295

## AIRPORT DIAGRAM

 APPLETON/OUTAGAMIE COUNTY RGNL (ATW)  
 AL-5216 (FAA)

APPLETON, WISCONSIN



## AIRPORT DIAGRAM

09295

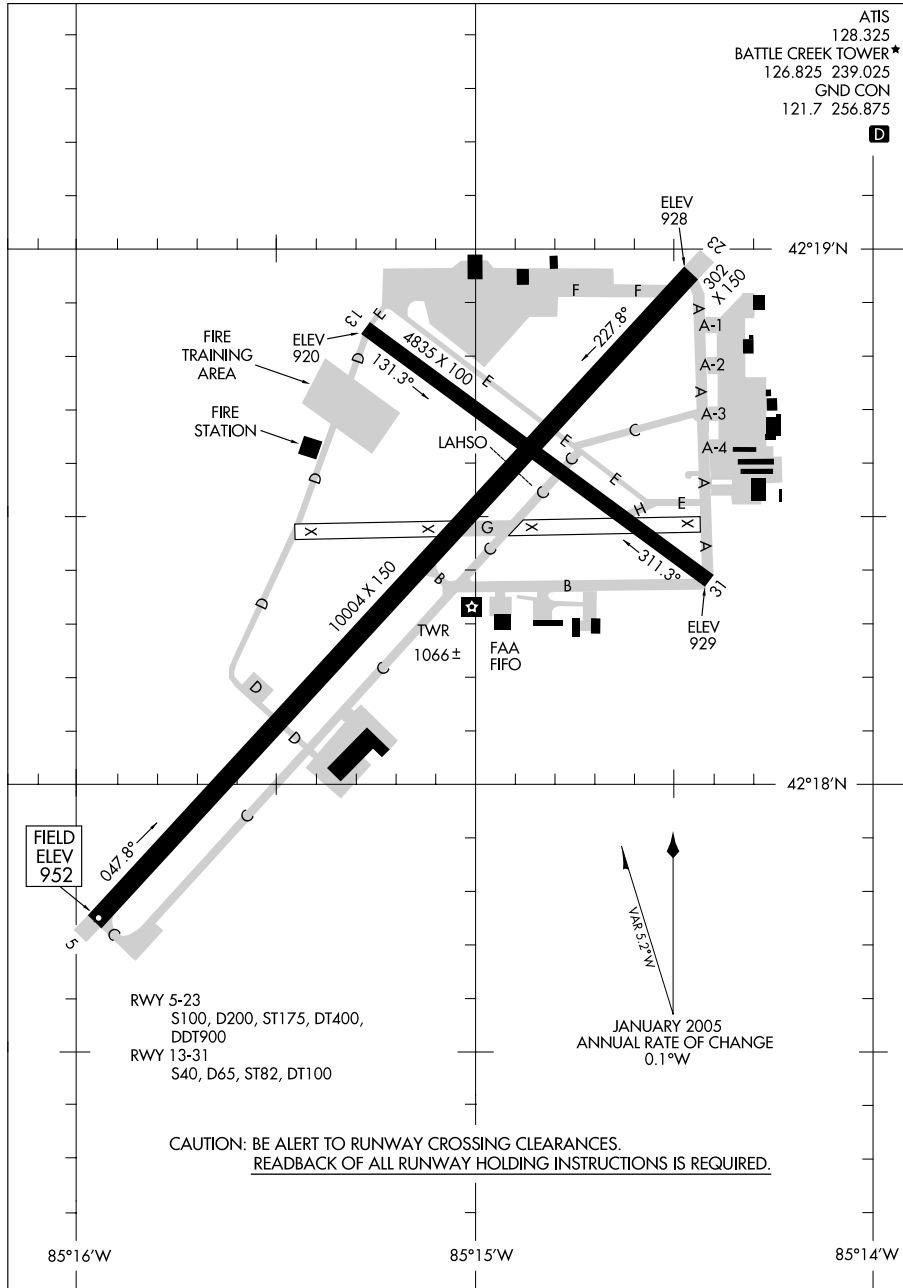
 APPLETON, WISCONSIN  
 APPLETON/OUTAGAMIE COUNTY RGNL (ATW)



09295

## AIRPORT DIAGRAM

AL-41 (FAA)

BATTLE CREEK/ W.K. KELLOGG (BTL)  
BATTLE CREEK, MICHIGAN

## AIRPORT DIAGRAM

09295

BATTLE CREEK, MICHIGAN  
BATTLE CREEK/ W.K. KELLOGG (BTL)



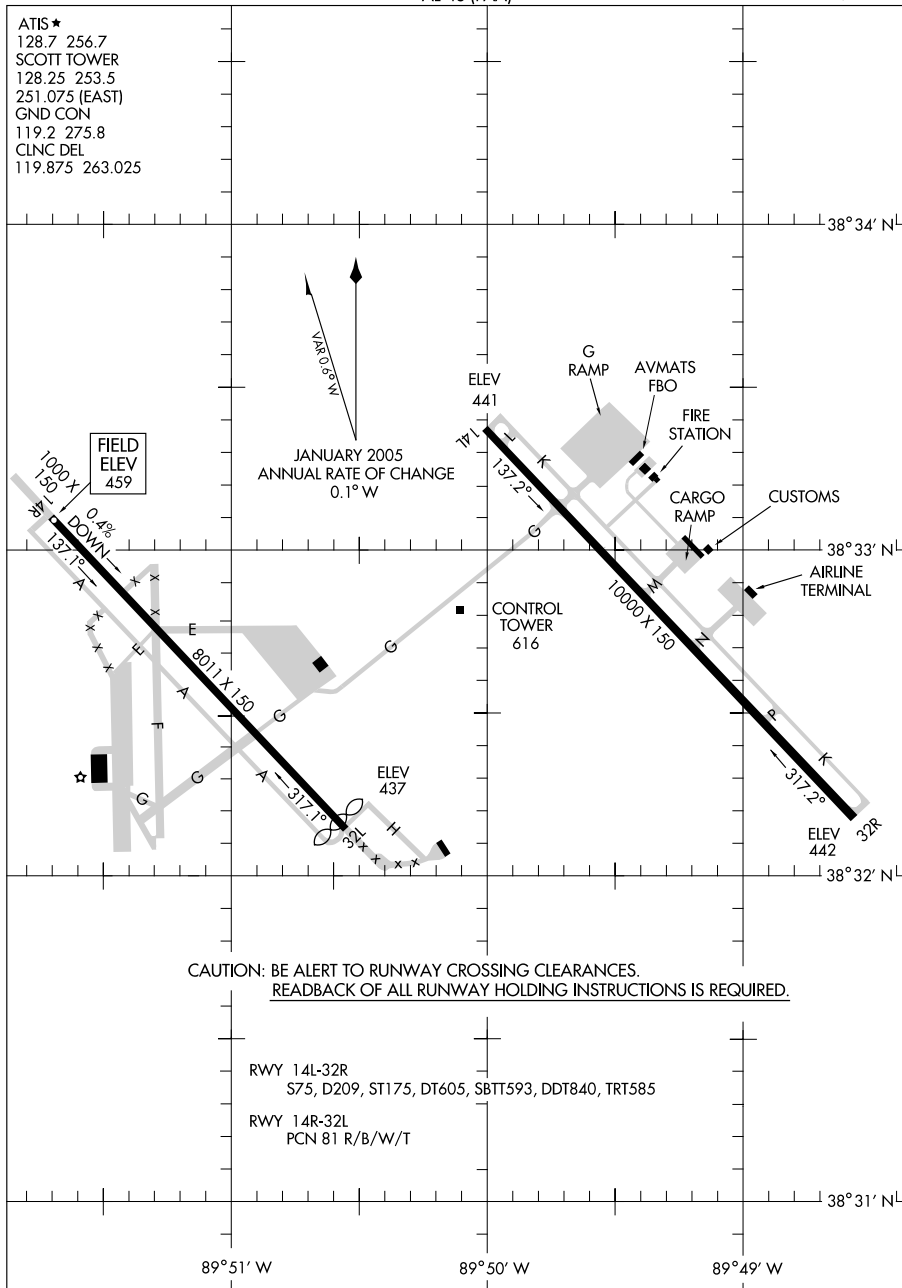
09239

## AIRPORT DIAGRAM

BELLEVILLE/SCOTT AFB/MIDAMERICA (BLV)

AL-46 (FAA)

BELLEVILLE, ILLINOIS



## AIRPORT DIAGRAM

09239

BELLEVILLE, ILLINOIS  
BELLEVILLE/SCOTT AFB/MIDAMERICA (BLV)



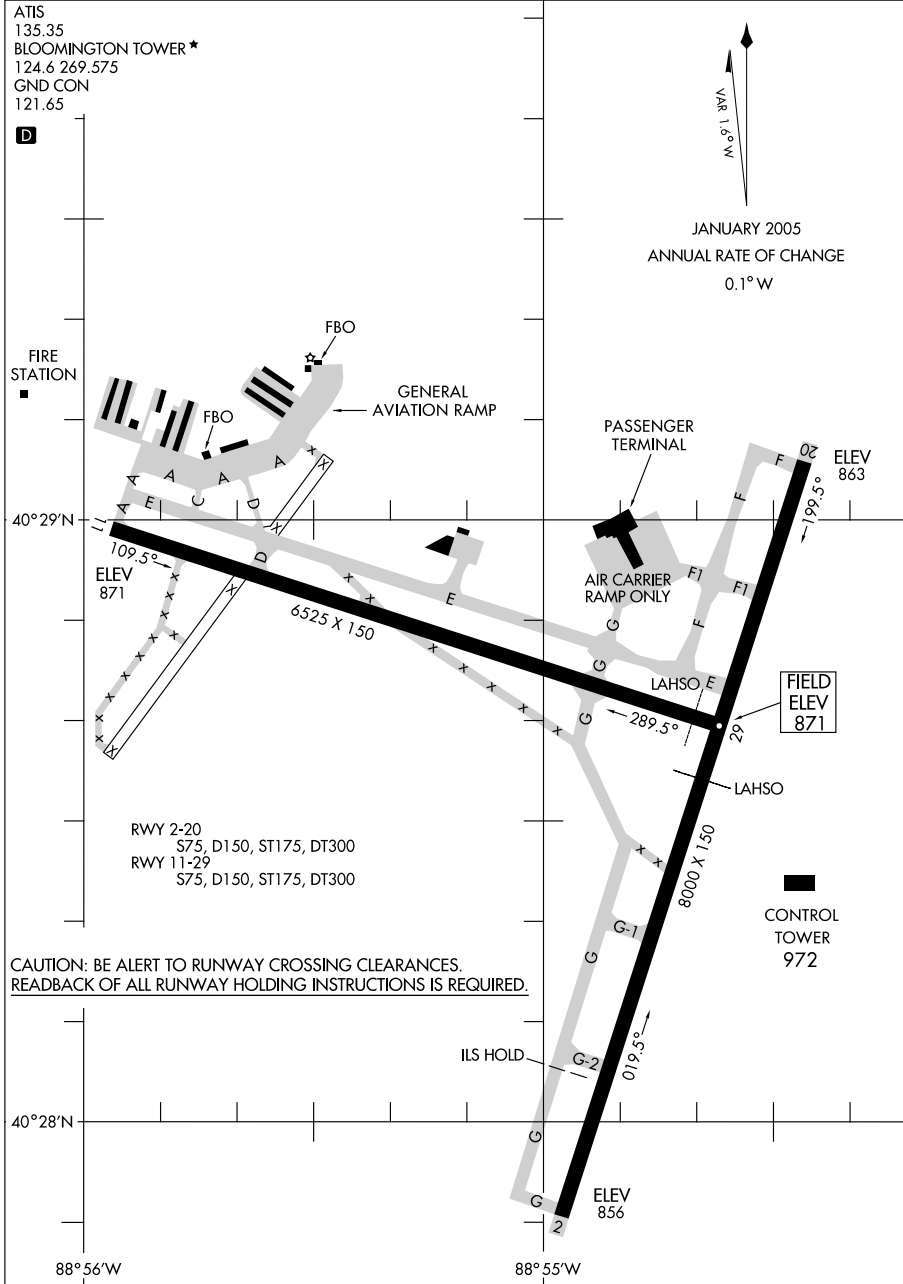
09295

BLOOMINGTON/CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL(BMI)

# AIRPORT DIAGRAM

AL-5058 (FAA)

BLOOMINGTON, ILLINOIS



# AIRPORT DIAGRAM

09295

BLOOMINGTON/CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL(BMI)

BLOOMINGTON, ILLINOIS



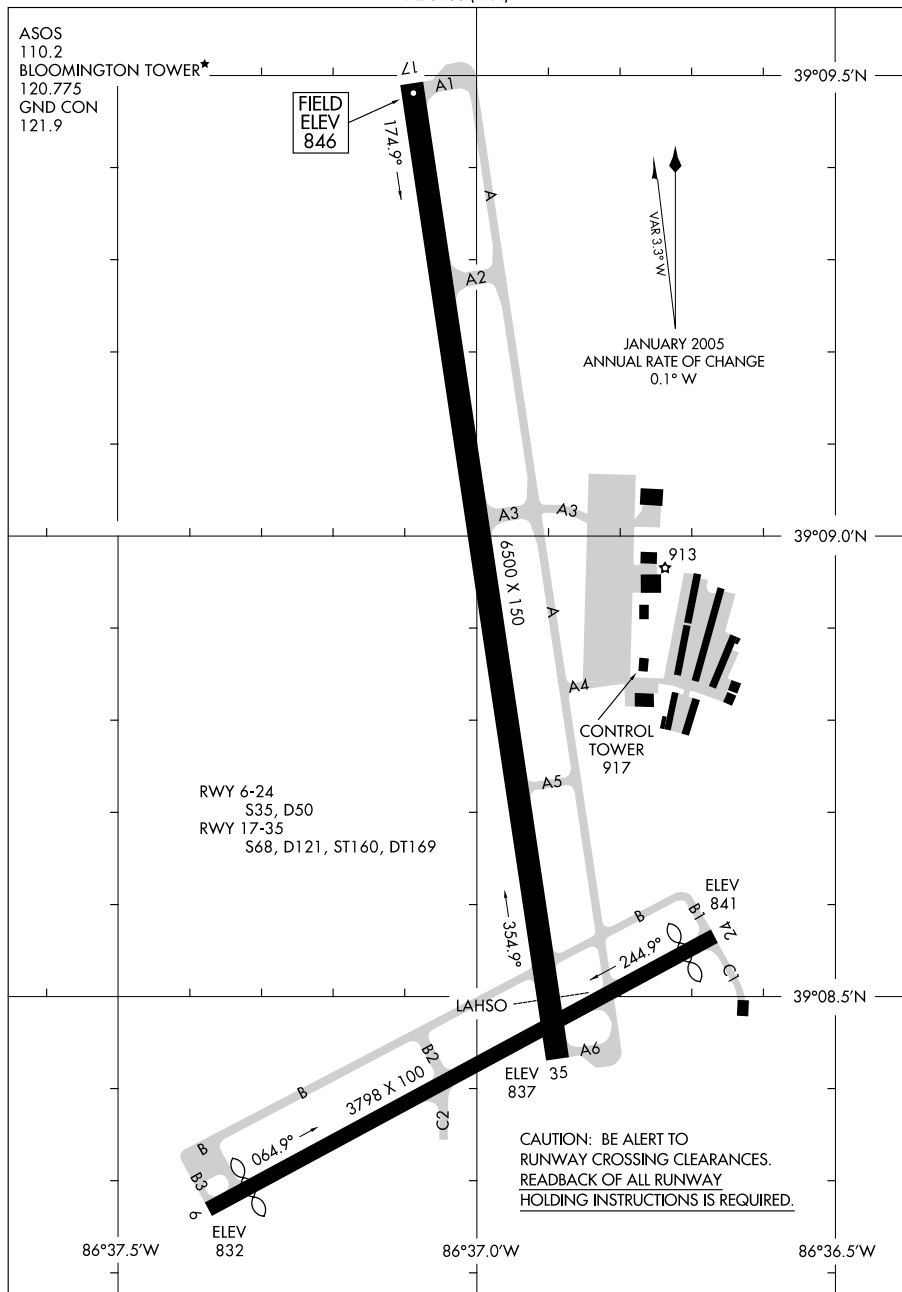
09295

## AIRPORT DIAGRAM

AL-5168 (FAA)

BLOOMINGTON / MONROE COUNTY (BMG)

BLOOMINGTON, INDIANA



## AIRPORT DIAGRAM

09295

BLOOMINGTON, INDIANA  
BLOOMINGTON / MONROE COUNTY (BMG)











CHAMPAIGN-URBANA/UNIVERSITY OF ILLINOIS-WILLARD (CMI)  
AL-709 (FAA) CHAMPAIGN-URBANA, ILLINOIS



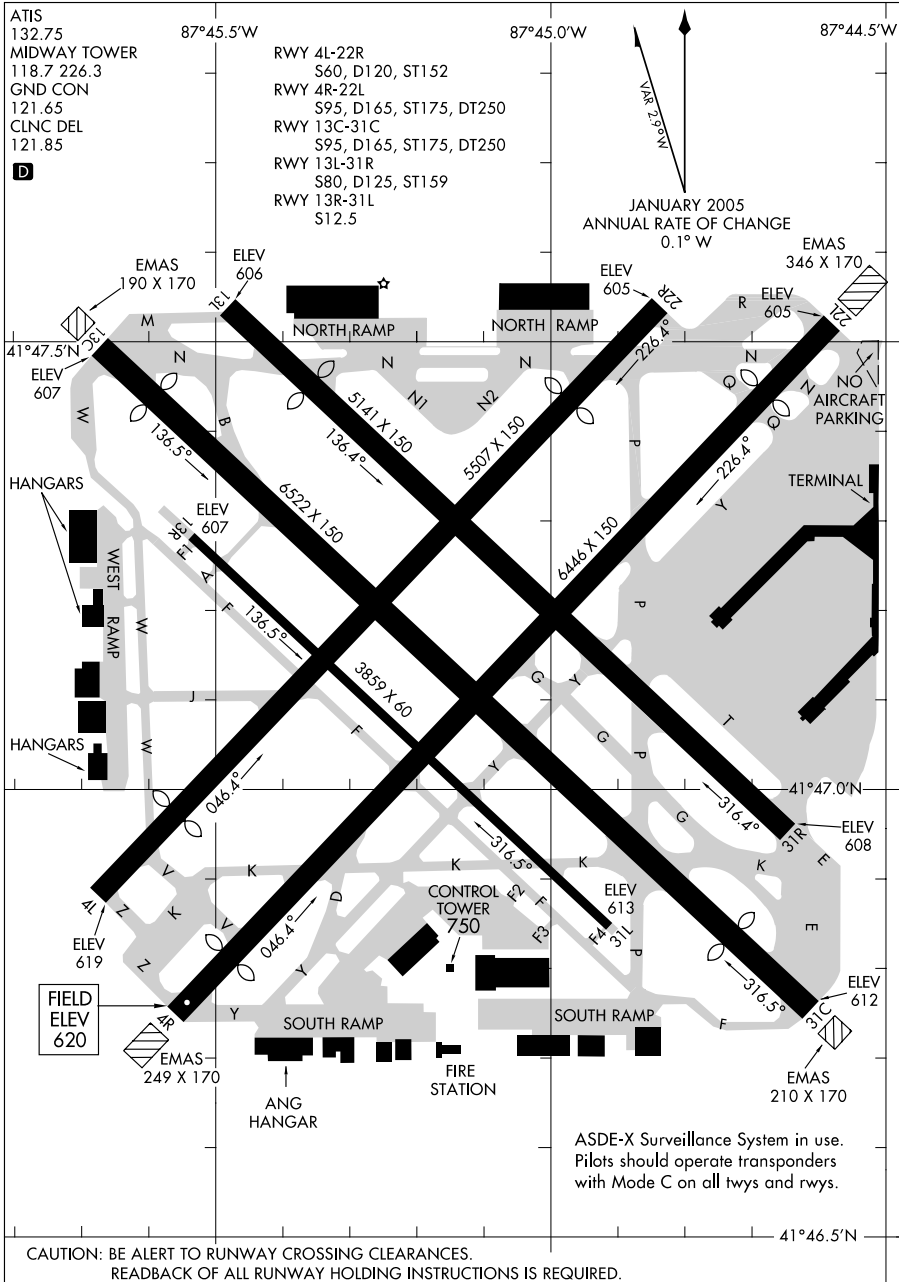
CHAMPAIGN-URBANA, ILLINOIS  
CHAMPAIGN-URBANA/UNIVERSITY OF ILLINOIS-WILLARD (CMI)



09351

## AIRPORT DIAGRAM

AL-81 (FAA)

CHICAGO MIDWAY INTL (MDW)  
CHICAGO, ILLINOIS

## AIRPORT DIAGRAM

09351

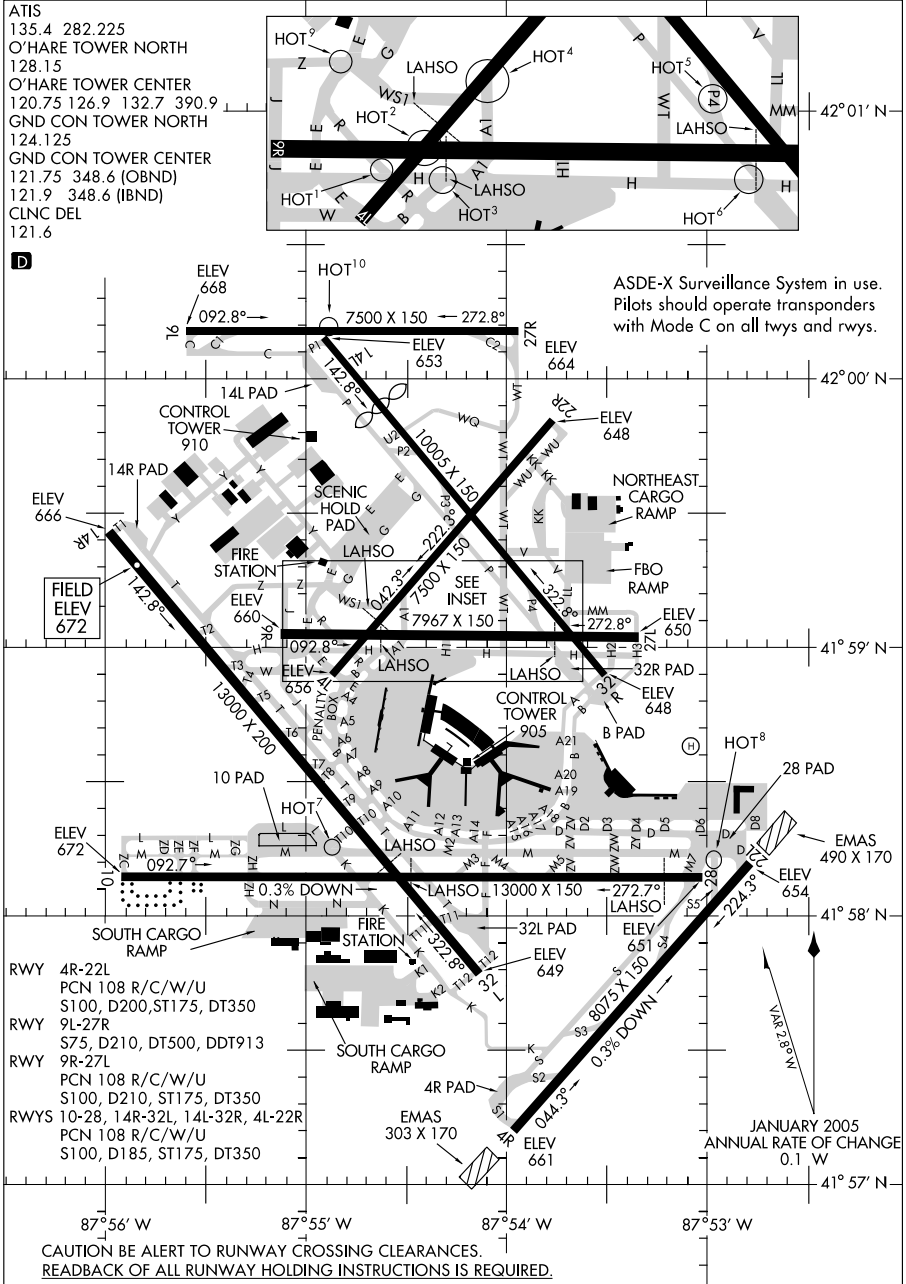
CHICAGO, ILLINOIS  
CHICAGO MIDWAY INTL (MDW)



09351

## AIRPORT DIAGRAM

AL-166 (FAA)

CHICAGO-O'HARE INTL (ORD)  
CHICAGO, ILLINOIS

## AIRPORT DIAGRAM

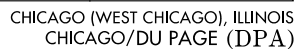
09351







CHICAGO/DU PAGE (DPA)  
CHICAGO (WEST CHICAGO), ILLINOIS



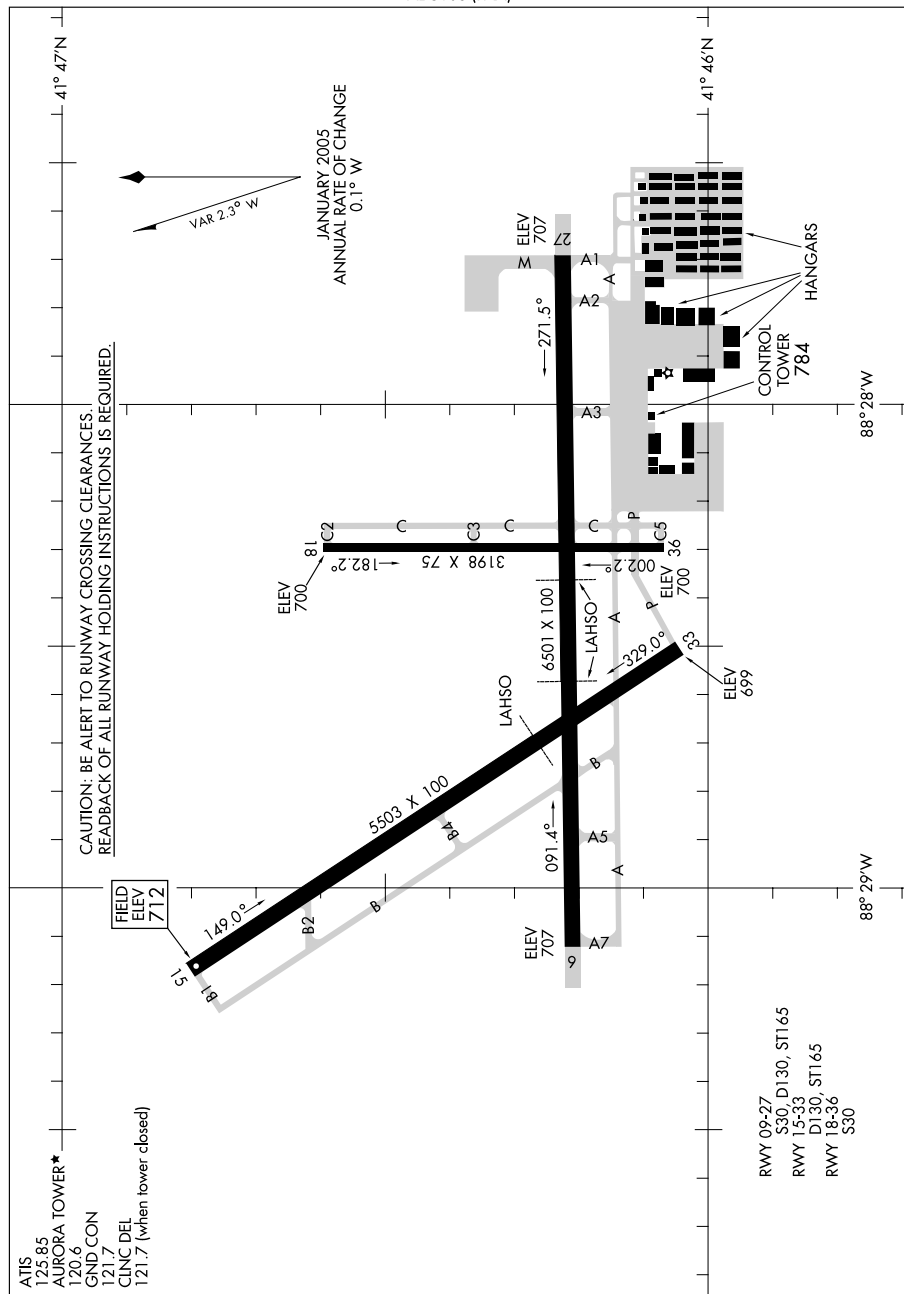
**EC, 17 DEC 2009 to 11 FEB 2010**



09295

## AIRPORT DIAGRAM

AL-5103 (FAA)

CHICAGO/AURORA MUNI (ARR)  
CHICAGO/AURORA, ILLINOIS

## AIRPORT DIAGRAM

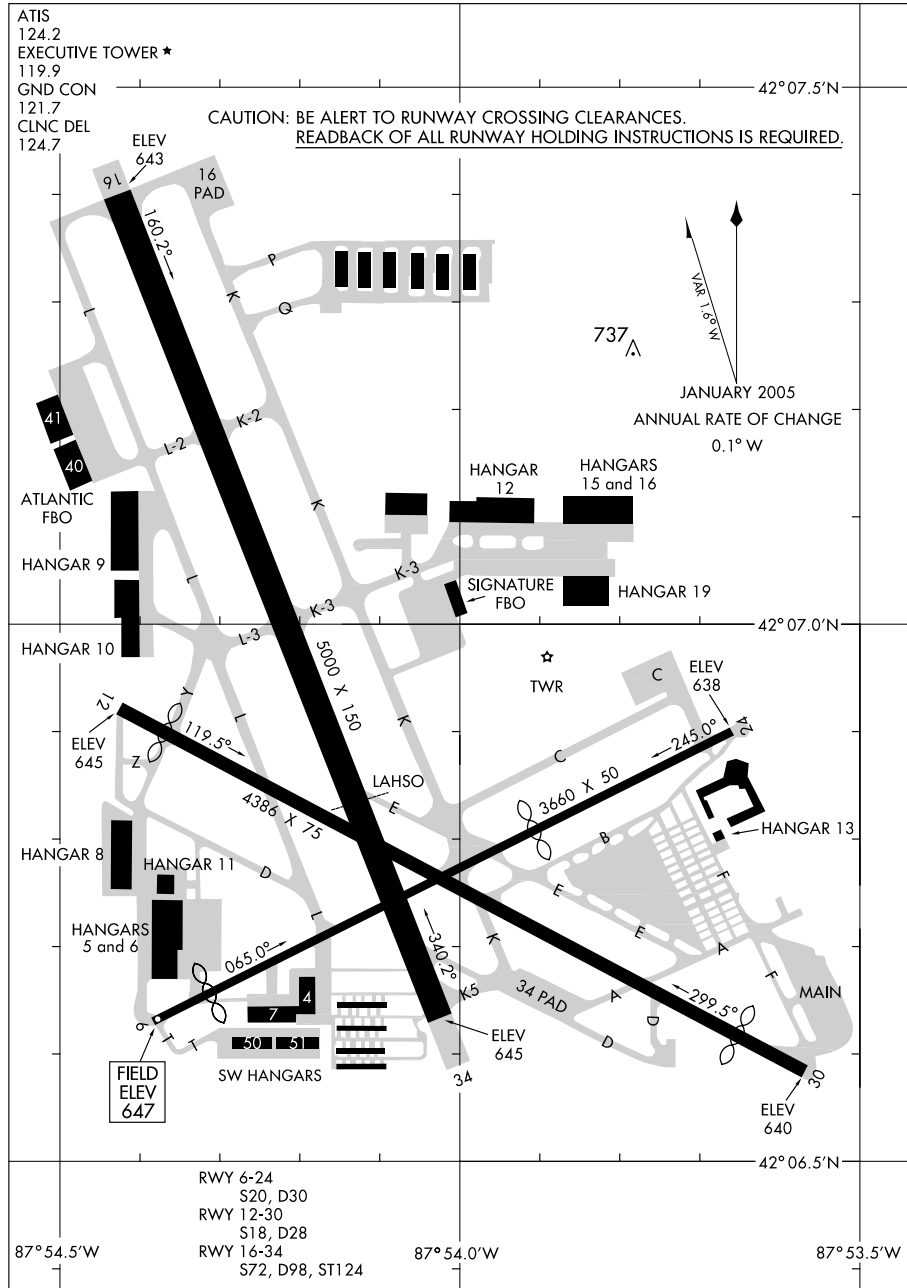
09295

CHICAGO/AURORA, ILLINOIS  
CHICAGO/AURORA MUNI (ARR)



09295

## AIRPORT DIAGRAM

AL-5028 (FAA) CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS  
CHICAGO EXECUTIVE (PWK)

## AIRPORT DIAGRAM

09295

CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS  
CHICAGO EXECUTIVE (PWK)



09351

## AIRPORT DIAGRAM

AL-5324 (FAA)

CHICAGO/WAUKEGAN RGNL (UGN)

CHICAGO/WAUKEGAN, ILLINOIS

ATIS

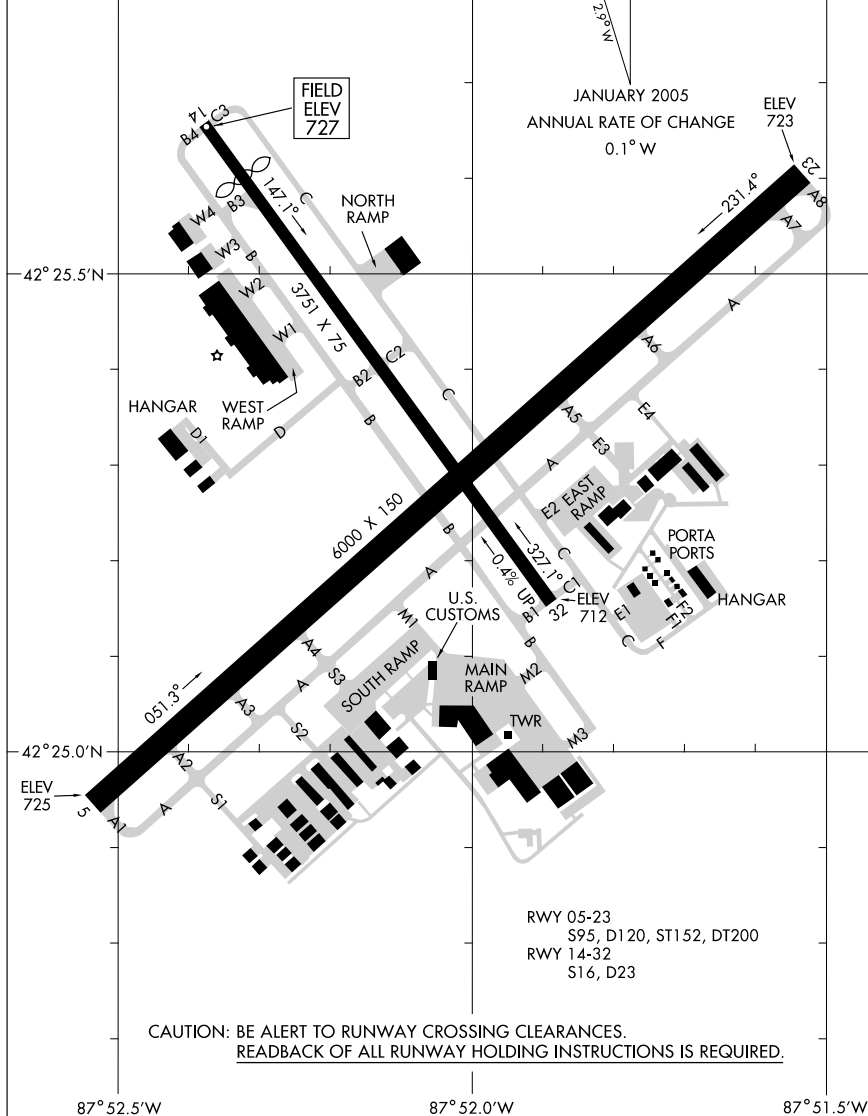
132.4

WAUKEGAN TOWER ★

120.05 380.15

GND CON

121.65



## AIRPORT DIAGRAM

09351

CHICAGO/WAUKEGAN, ILLINOIS

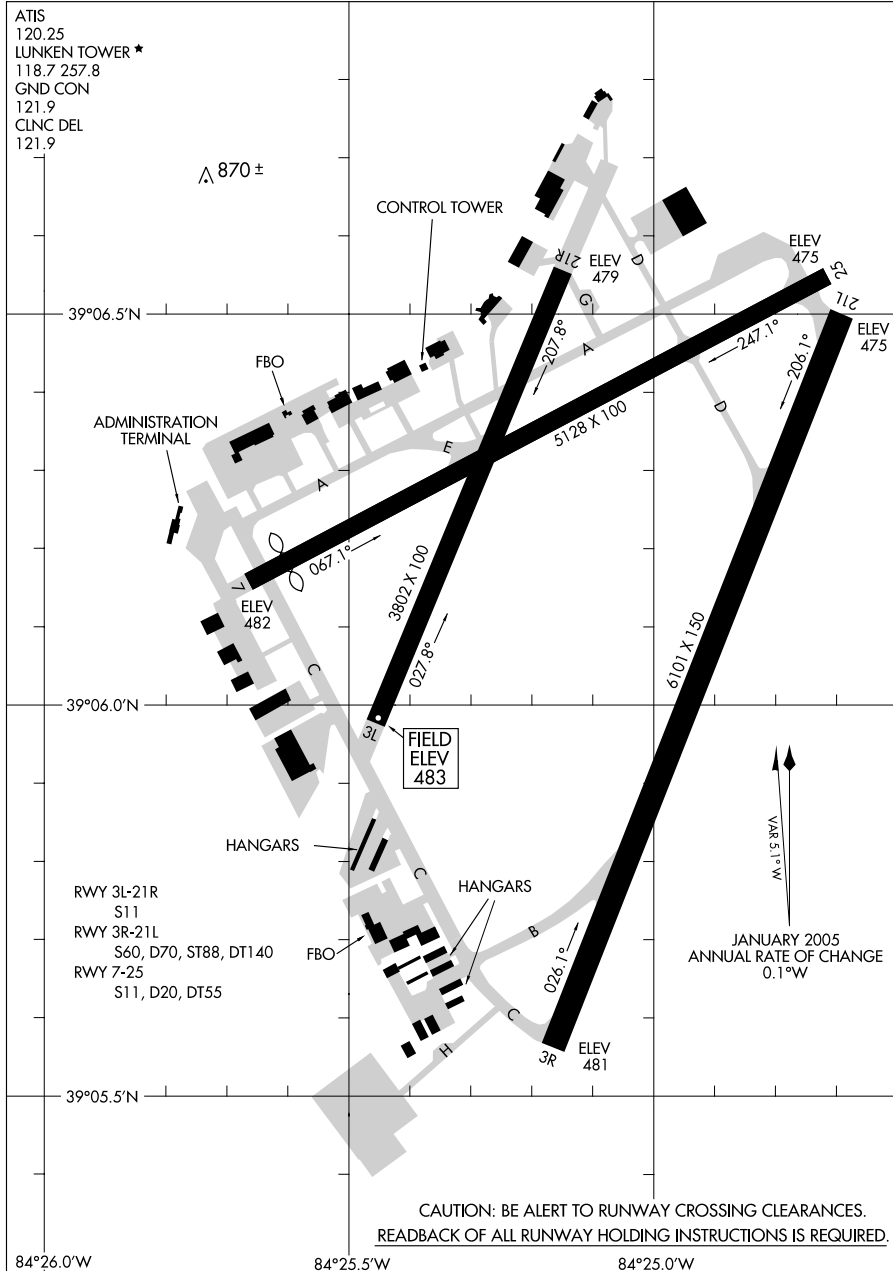
CHICAGO/WAUKEGAN RGNL (UGN)



09071

# AIRPORT DIAGRAM

CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUK)  
AL-83 (FAA)  
CINCINNATI, OHIO



# AIRPORT DIAGRAM

09071

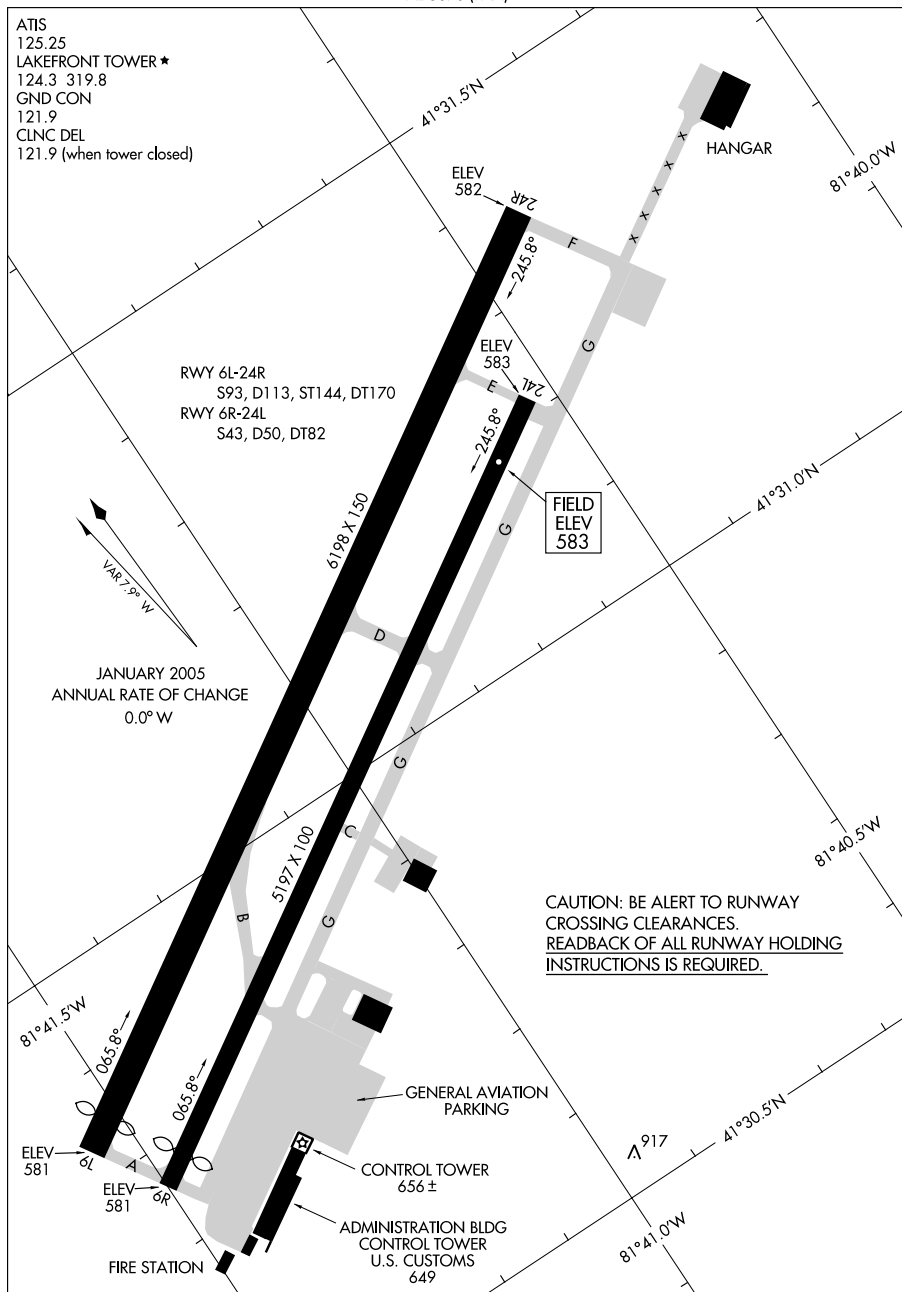
CINCINNATI, OHIO  
CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUK)



09015

## AIRPORT DIAGRAM

AL-5370 (FAA)

CLEVELAND/ BURKE LAKEFRONT (BKL)  
CLEVELAND, OHIO

## AIRPORT DIAGRAM

09015

CLEVELAND, OHIO  
CLEVELAND/ BURKE LAKEFRONT (BKL)

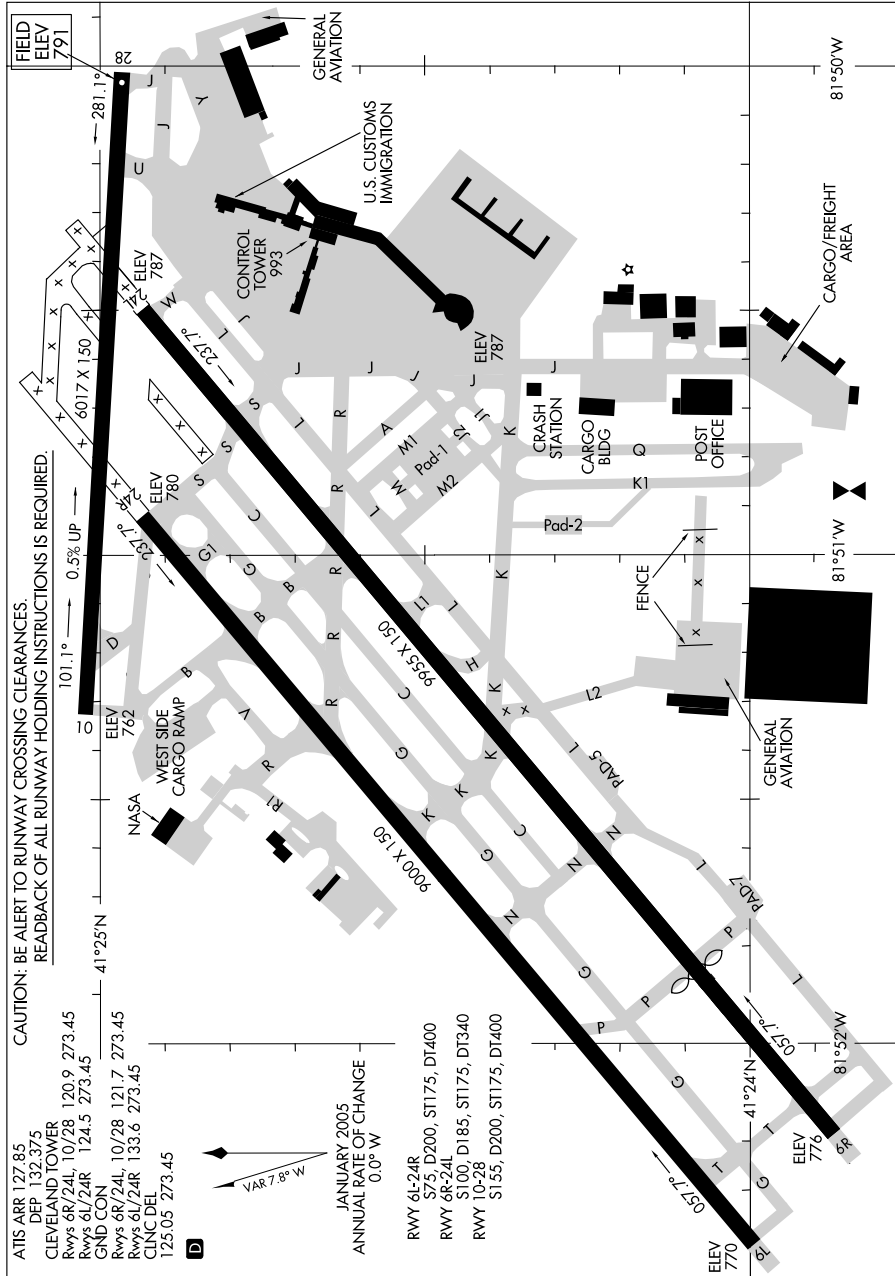


09183

## AIRPORT DIAGRAM

AL-84 (FAA)

CLEVELAND-HOPKINS INTL (CLE)  
CLEVELAND, OHIO



## AIRPORT DIAGRAM

09183

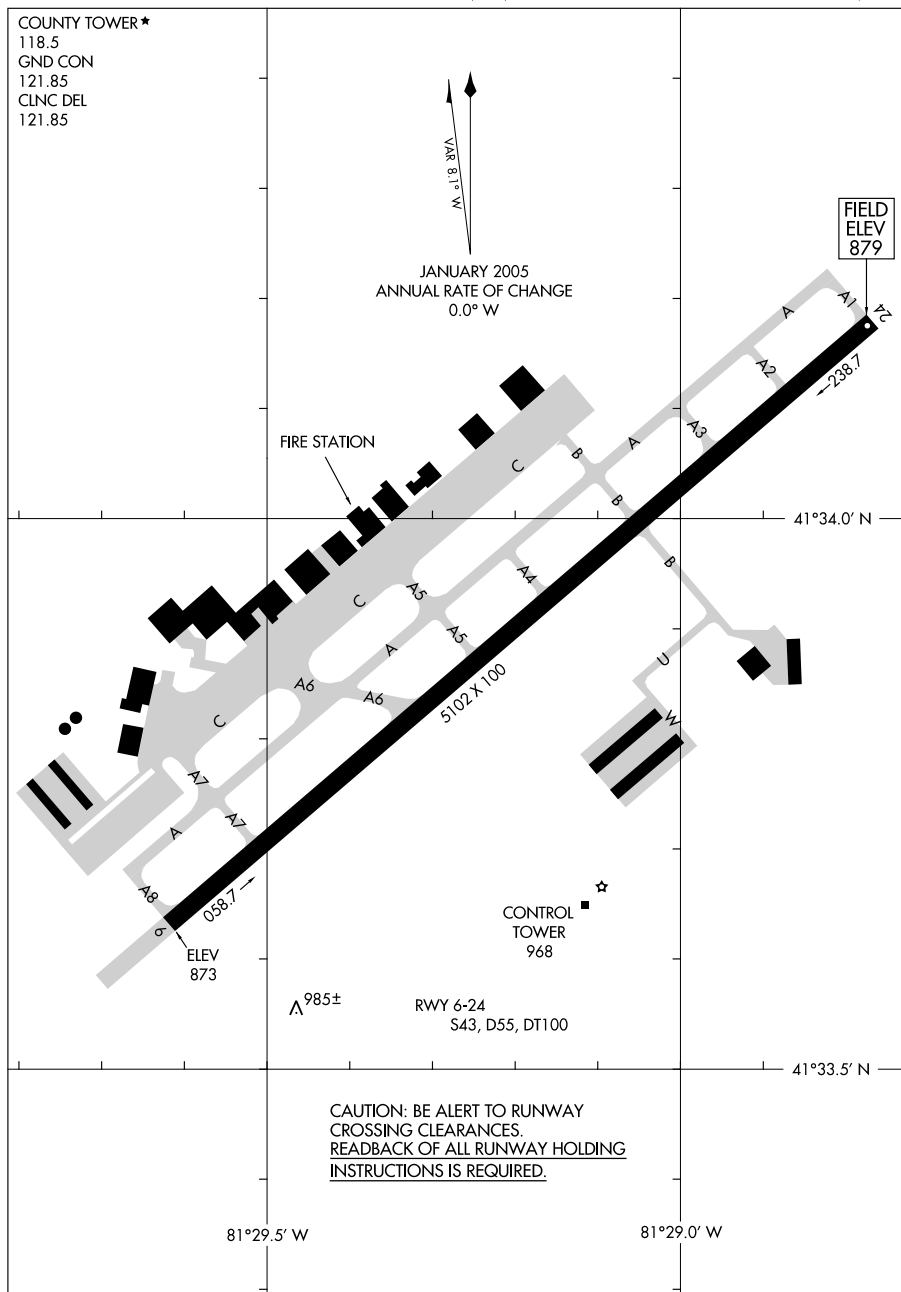
CLEVELAND, OHIO  
CLEVELAND-HOPKINS INTL (CLE)



08269

## AIRPORT DIAGRAM

AL-5027 (FAA)

CLEVELAND / CUYAHOGA COUNTY (CGF)  
CLEVELAND, OHIO

## AIRPORT DIAGRAM

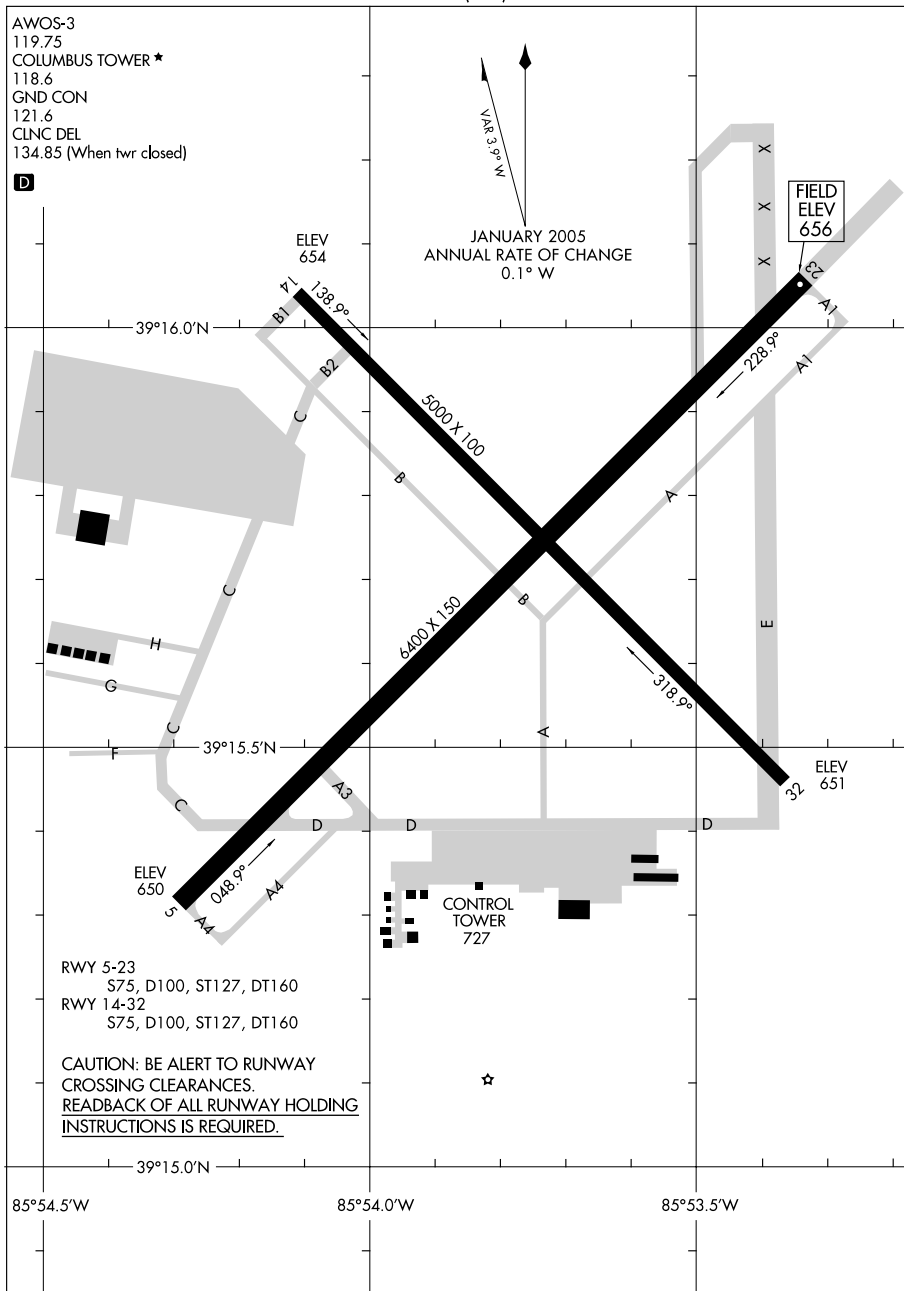
08269

CLEVELAND, OHIO  
CLEVELAND / CUYAHOGA COUNTY (CGF)



09295

## AIRPORT DIAGRAM

COLUMBUS MUNI (BAK)  
COLUMBUS, INDIANA

## AIRPORT DIAGRAM

COLUMBUS, INDIANA  
COLUMBUS MUNI (BAK)

09295

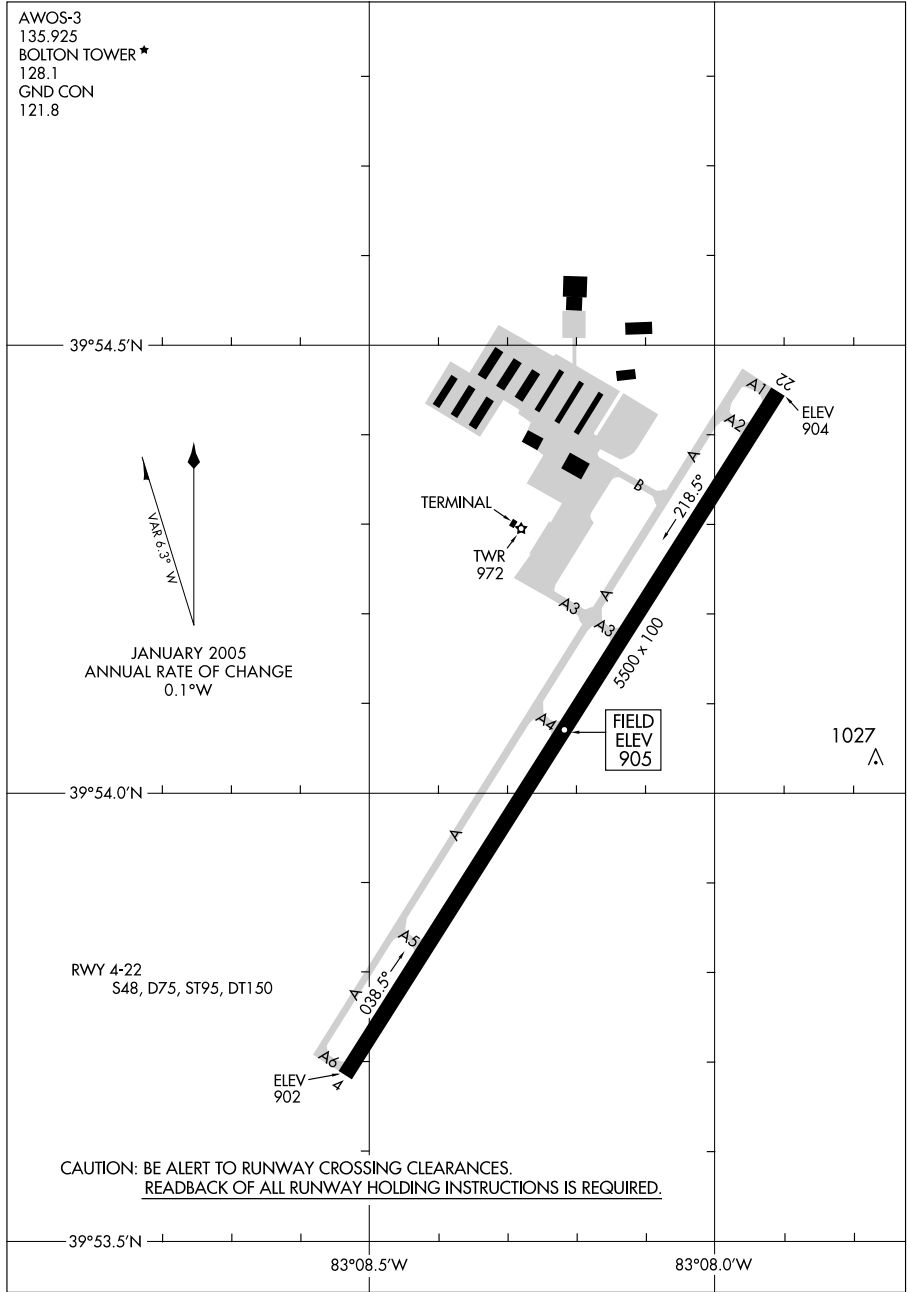


09295

AIRPORT DIAGRAM

AL-5958 (FAA)

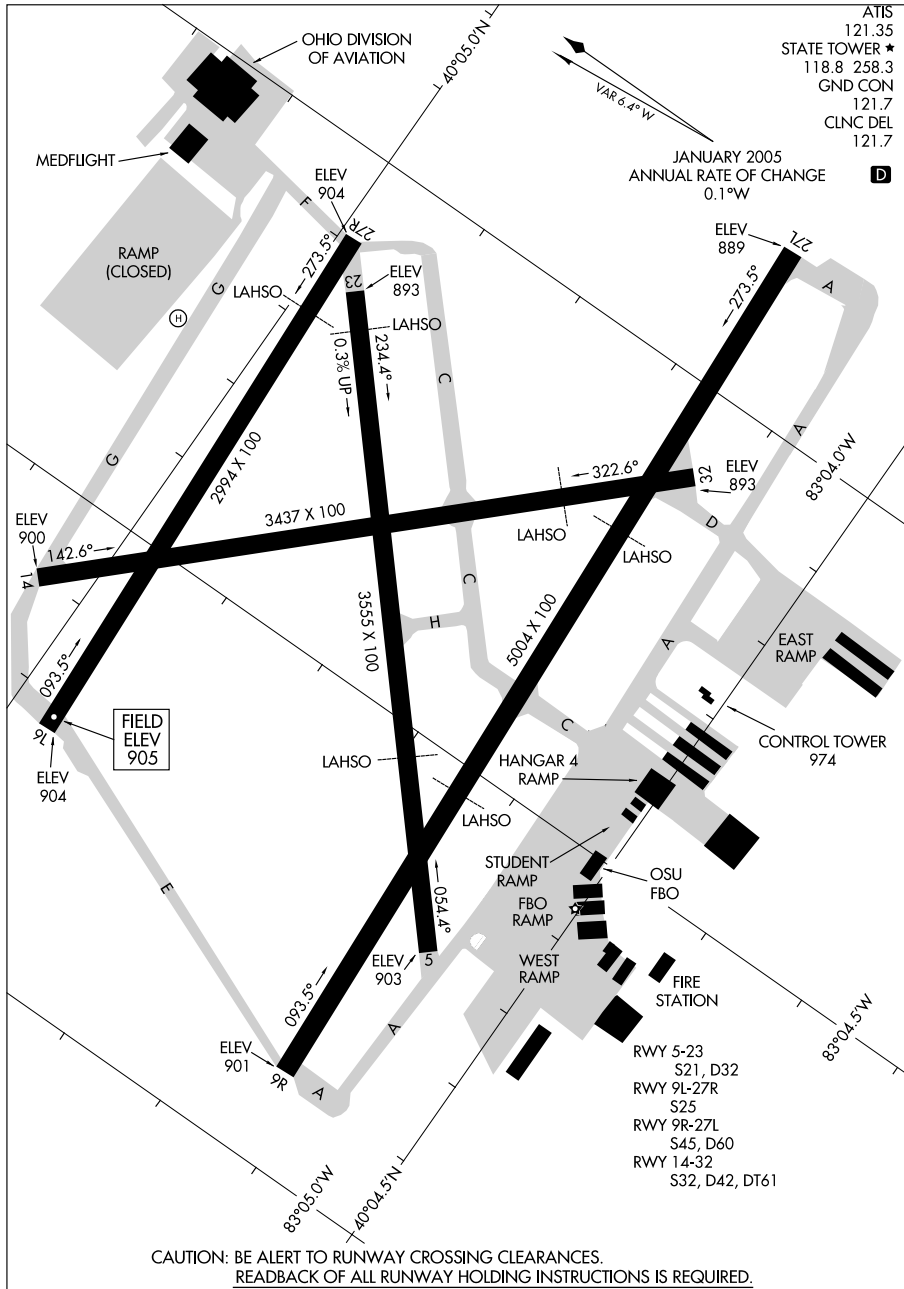
COLUMBUS/ BOLTON FIELD (TZR)  
COLUMBUS, OHIO





# AIRPORT DIAGRAM

COLUMBUS/OHIO STATE UNIVERSITY (OSU)  
COLUMBUS, OHIO



## AIRPORT DIAGRAM

COLUMBUS, OHIO  
COLUMBUS/OHIO STATE UNIVERSITY (OSU)



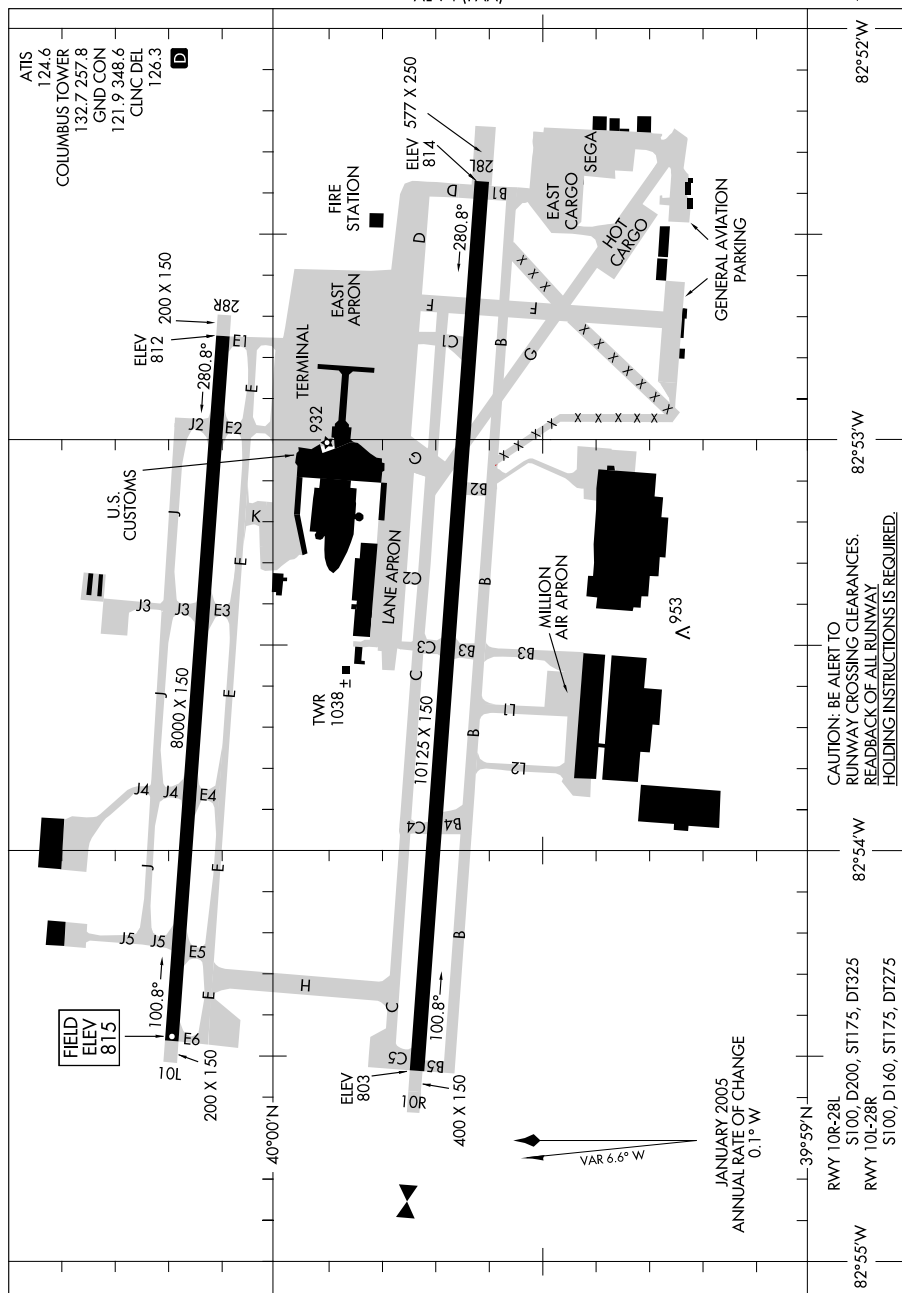
09295

## AIRPORT DIAGRAM

COLUMBUS/ PORT COLUMBUS INTL (CMH)

AL-94 (FAA)

COLUMBUS, OHIO

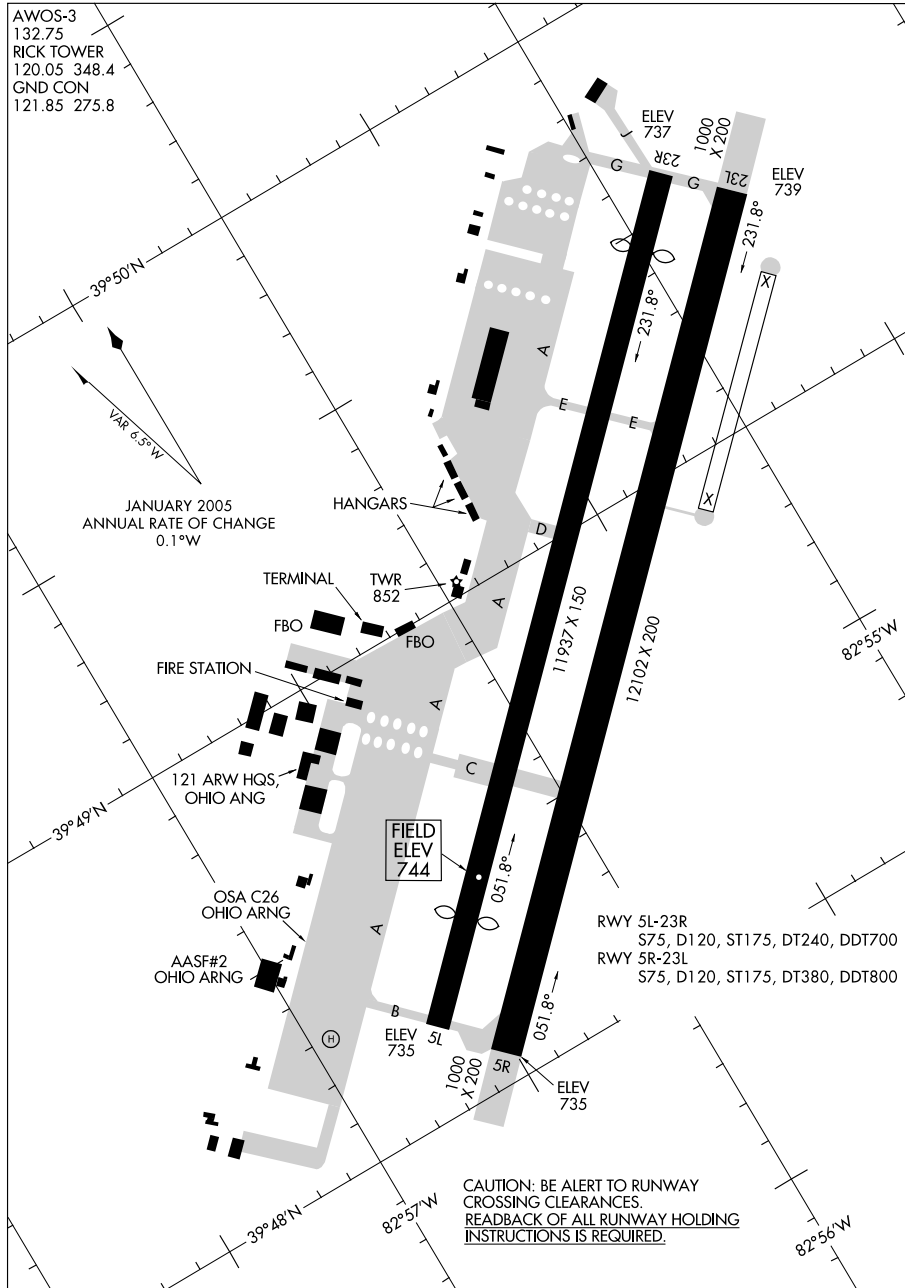




09295

## AIRPORT DIAGRAM

AL-6846 (FAA)

COLUMBUS/RICKENBACKER INTL (LCK)  
COLUMBUS, OHIO

## AIRPORT DIAGRAM

09295

COLUMBUS, OHIO  
COLUMBUS/RICKENBACKER INTL (LCK)



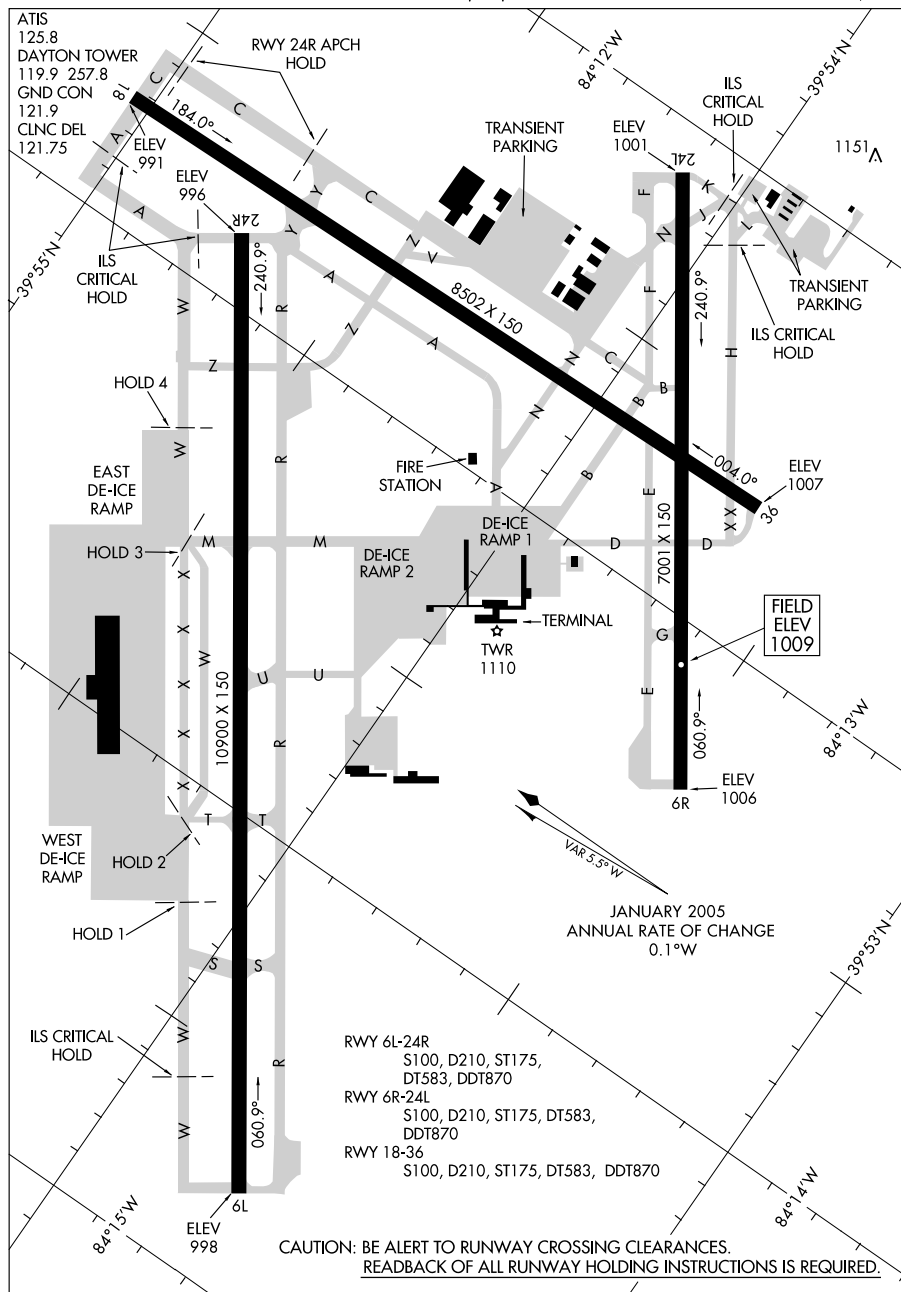
09183

## AIRPORT DIAGRAM

DAYTON / JAMES M. COX-DAYTON INTL (DAY)

AL-107 (FAA)

DAYTON, OHIO



## AIRPORT DIAGRAM

09183

DAYTON, OHIO  
DAYTON / JAMES M. COX-DAYTON INTL (DAY)

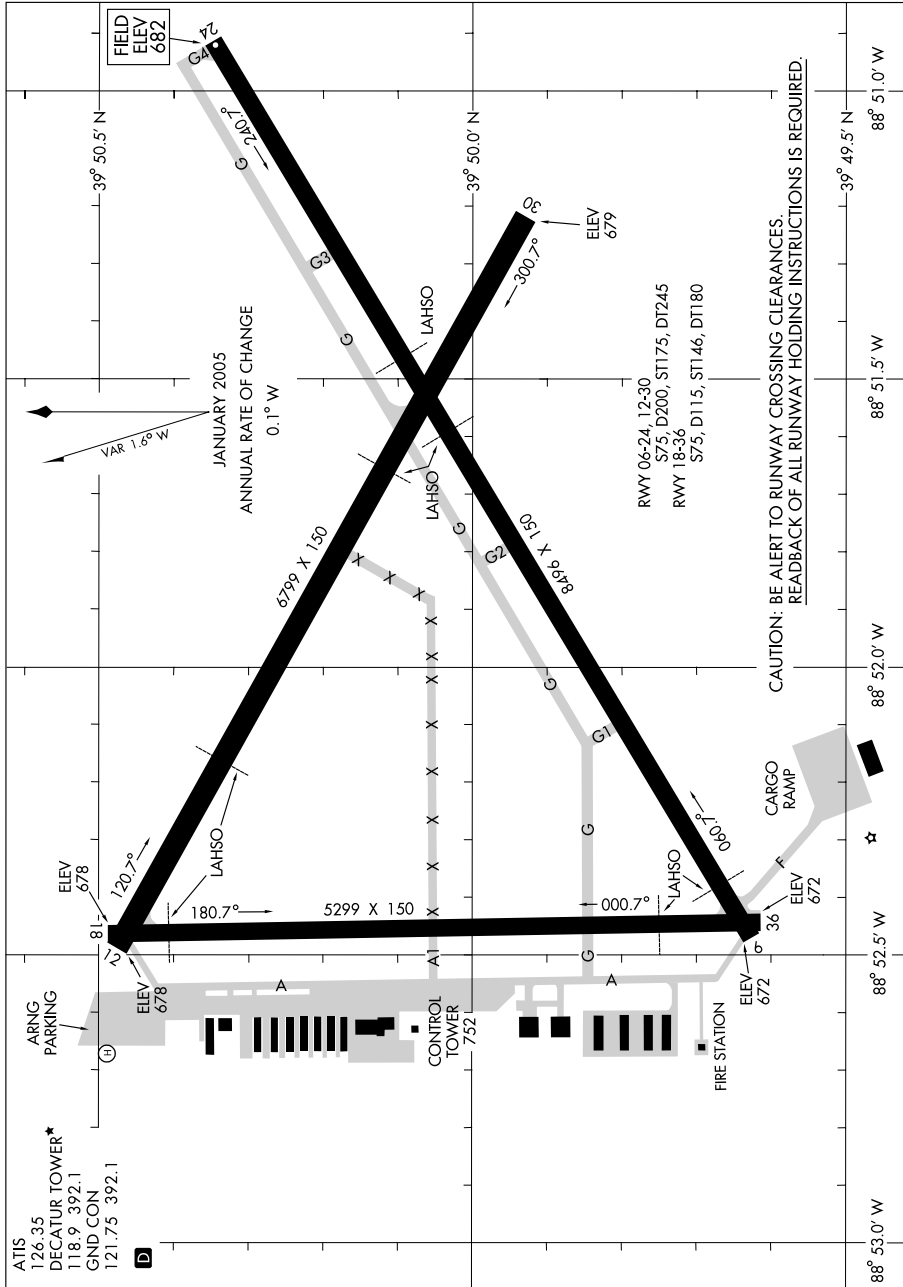


09295

# AIRPORT DIAGRAM

AL-710 (FAA)

DECATUR (DEC)  
DECATUR, ILLINOIS



# AIRPORT DIAGRAM

09295

DECATUR, ILLINOIS  
DECATUR (DEC)



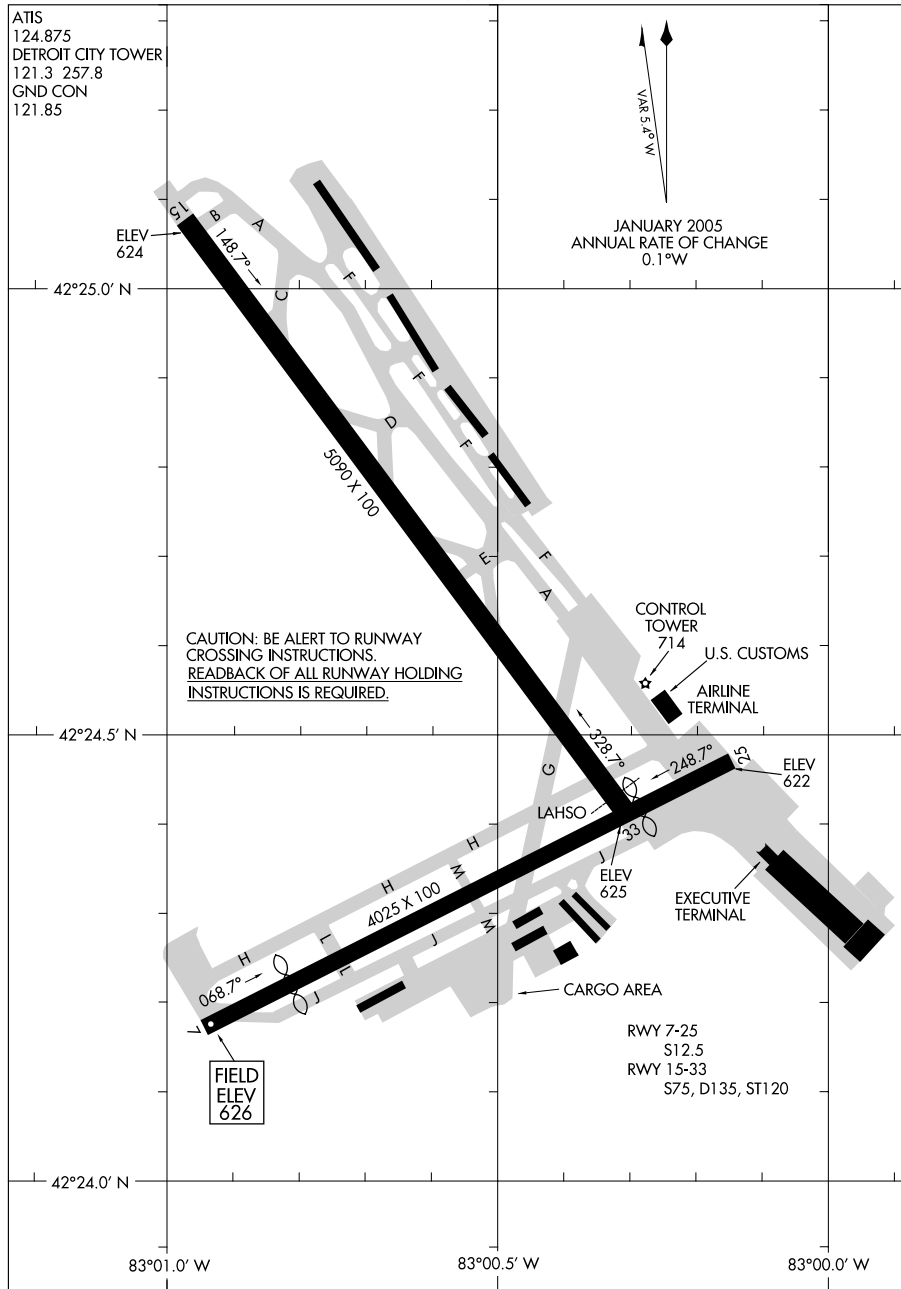
09015

## AIRPORT DIAGRAM

DETROIT/ COLEMAN A. YOUNG MUNI (DET)

AL-118 (FAA)

DETROIT, MICHIGAN



## AIRPORT DIAGRAM

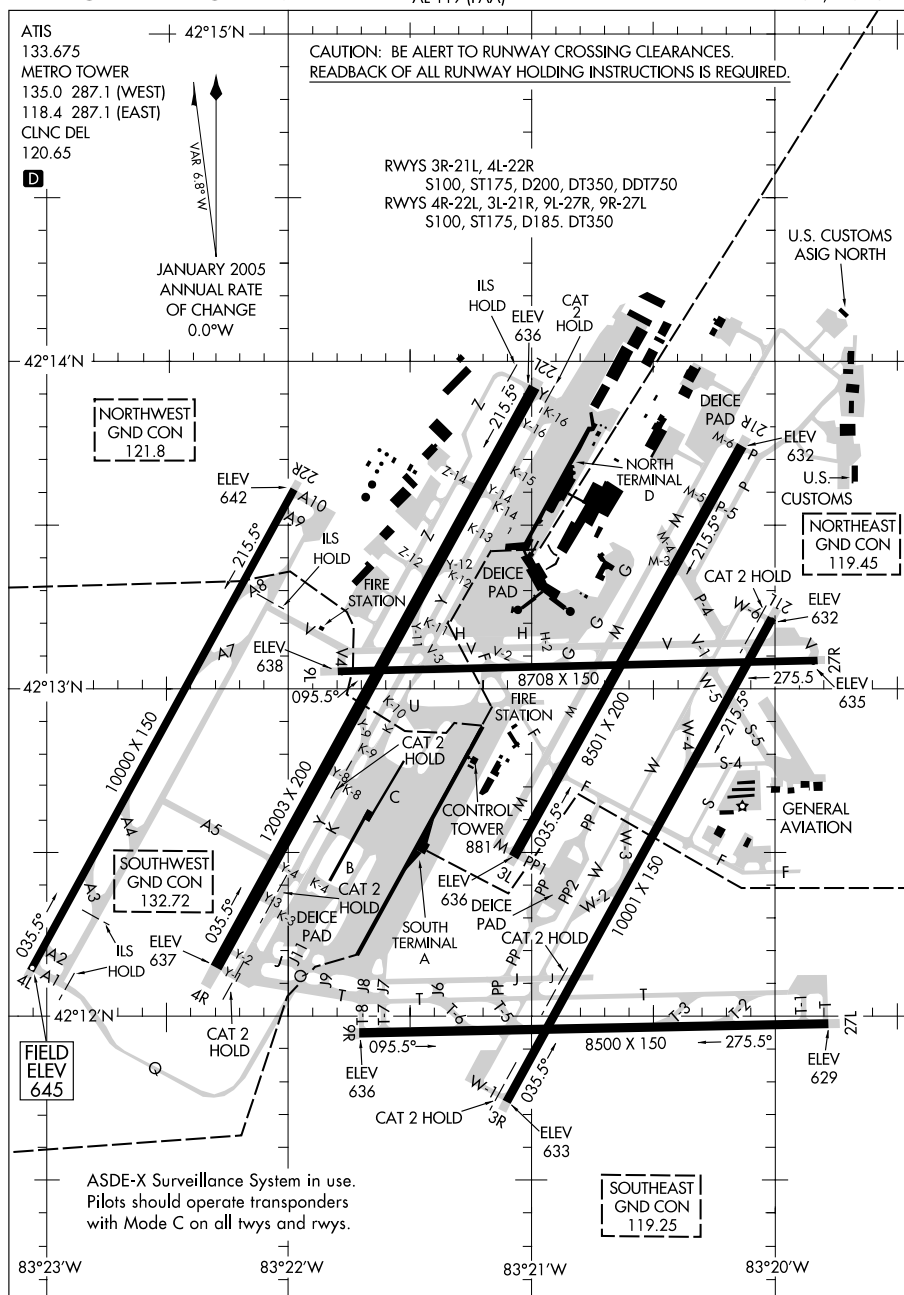
09015

DETROIT, MICHIGAN  
DETROIT/ COLEMAN A. YOUNG MUNI (DET)



## AIRPORT DIAGRAM

DETROIT METROPOLITAN WAYNE COUNTY (DTW)  
AL-119 (FAA) DETROIT, MICHIGAN



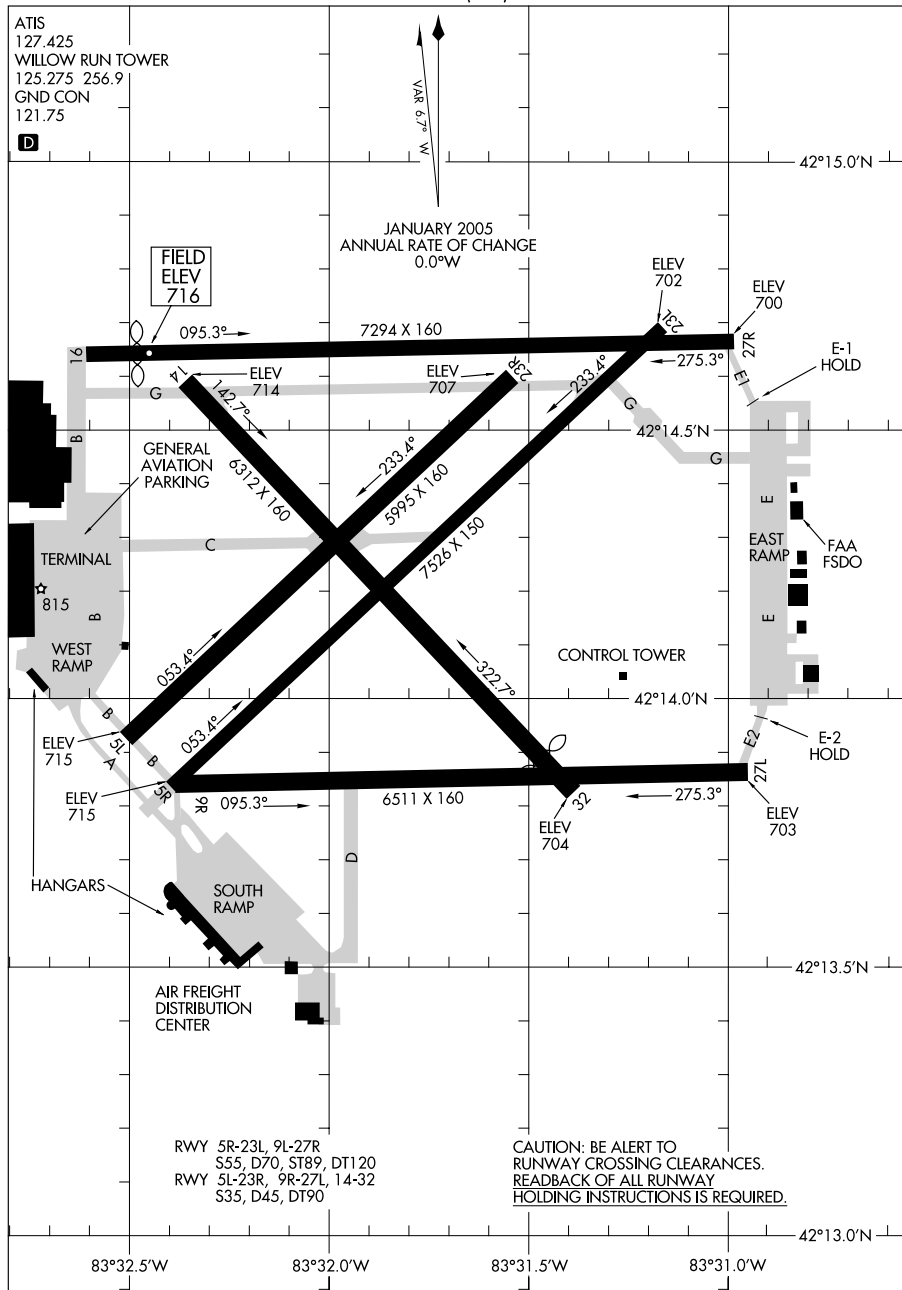
## AIRPORT DIAGRAM

DETROIT, MICHIGAN  
DETROIT METROPOLITAN WAYNE COUNTY (DTW)



09295

## AIRPORT DIAGRAM

DETROIT/WILLOW RUN (YIP)  
DETROIT, MICHIGAN

## AIRPORT DIAGRAM

09295

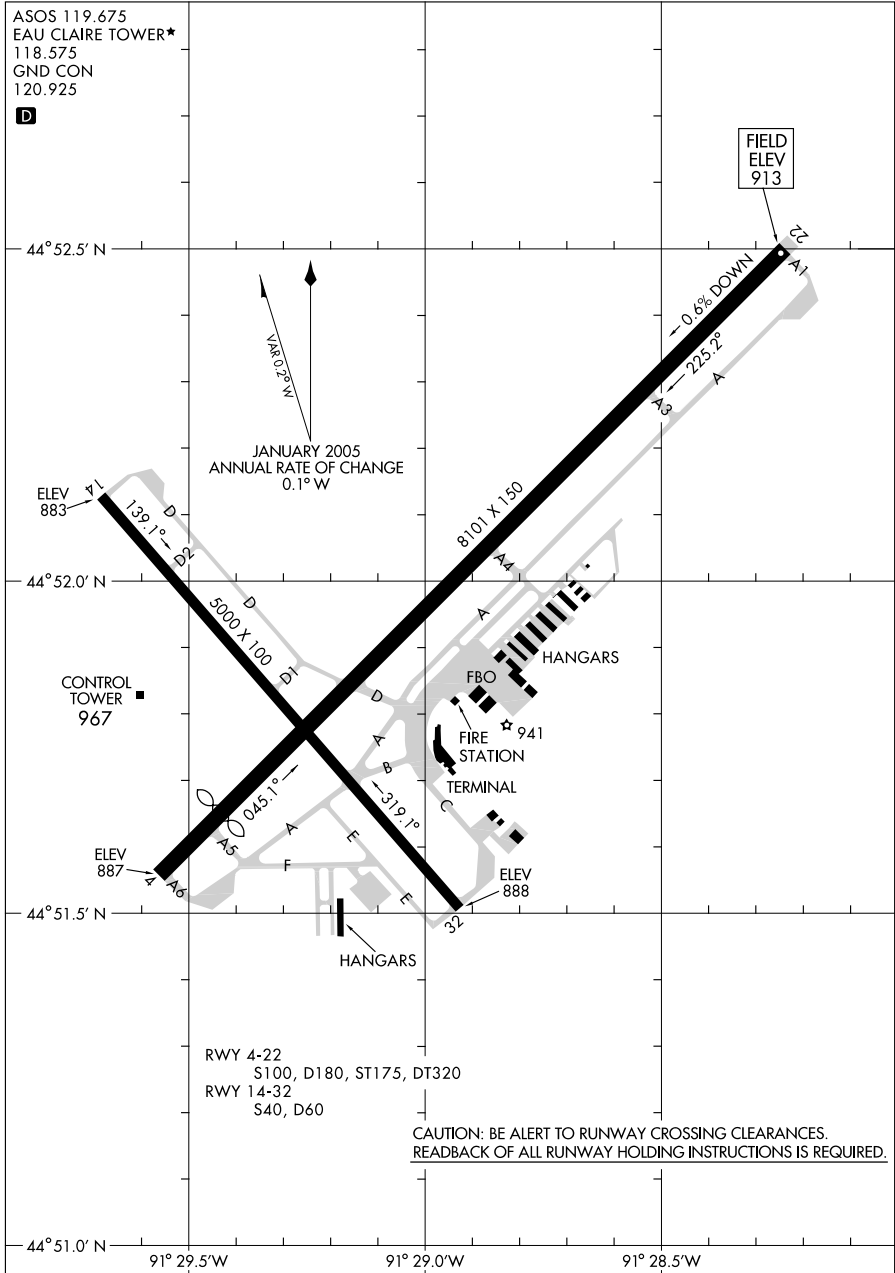
DETROIT, MICHIGAN  
DETROIT/WILLOW RUN (YIP)



09071

# AIRPORT DIAGRAM

EAU CLAIRE/CHIPPEWA VALLEY RGNL (EAU)  
AL-937 (FAA) EAU CLAIRE, WISCONSIN



# AIRPORT DIAGRAM

EAU CLAIRE, WISCONSIN  
EAU CLAIRE/CHIPPEWA VALLEY RGNL (EAU)

09071



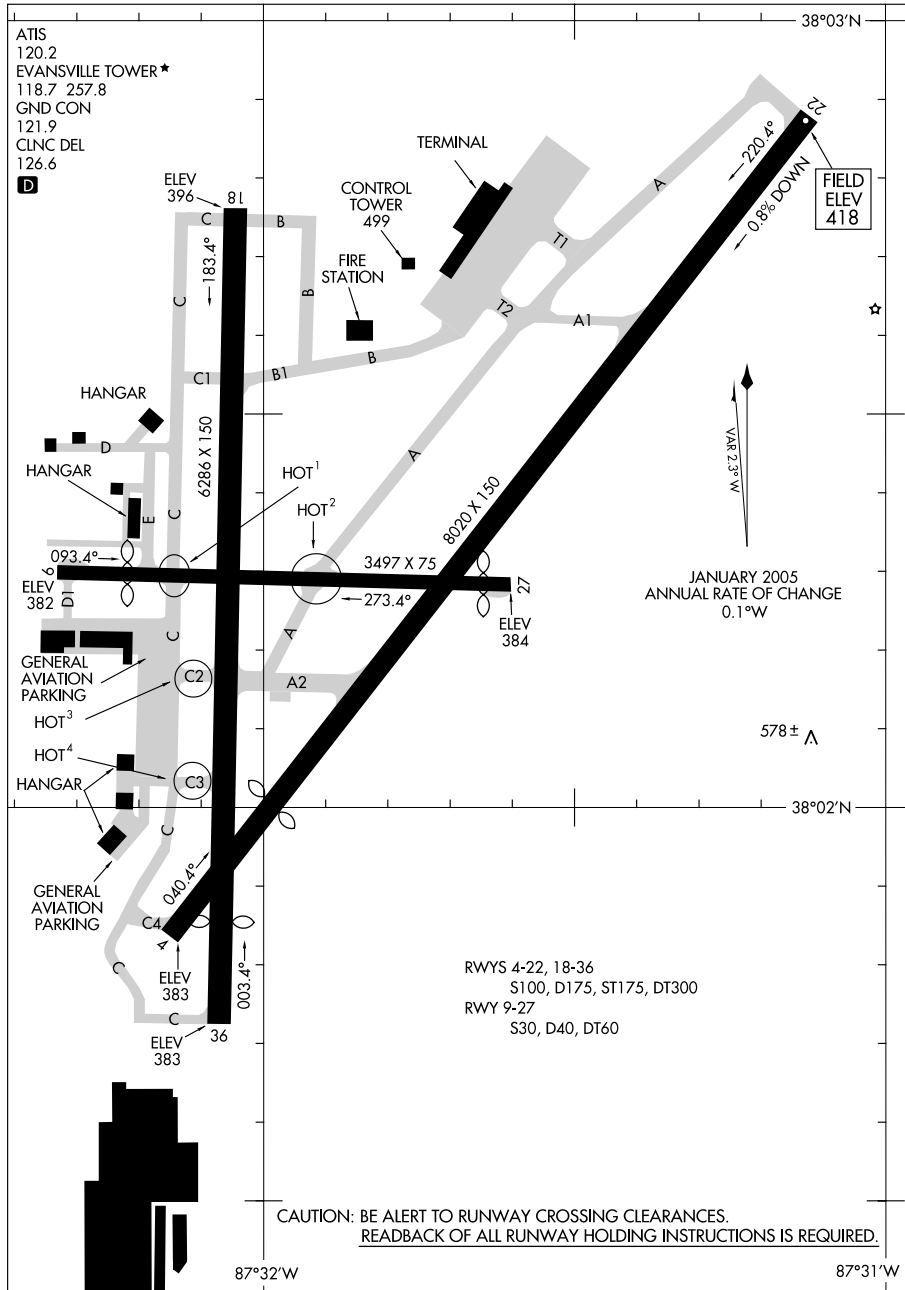




09351

## AIRPORT DIAGRAM

AL-513 (FAA)

EVANSVILLE RGNL (EVV)  
EVANSVILLE, INDIANA

## AIRPORT DIAGRAM

09351

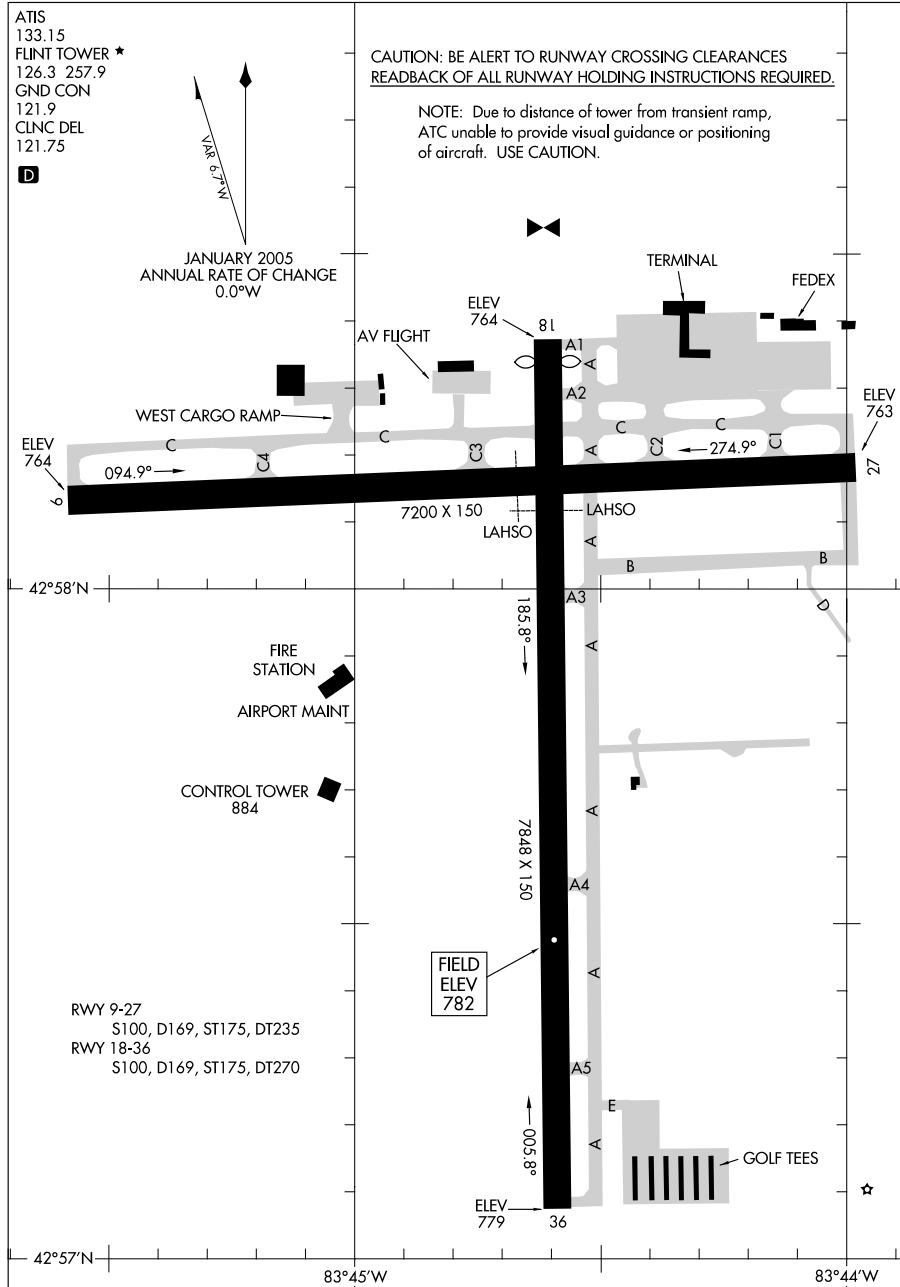
EVANSVILLE, INDIANA  
EVANSVILLE RGNL (EVV)



09351

## AIRPORT DIAGRAM

AL-618 (FAA)

FLINT / BISHOP INTL (FNT)  
FLINT, MICHIGAN

## AIRPORT DIAGRAM

09351

FLINT, MICHIGAN  
FLINT / BISHOP INTL (FNT)



FORT WAYNE INTL (FWA)  
FORT WAYNE, INDIANA

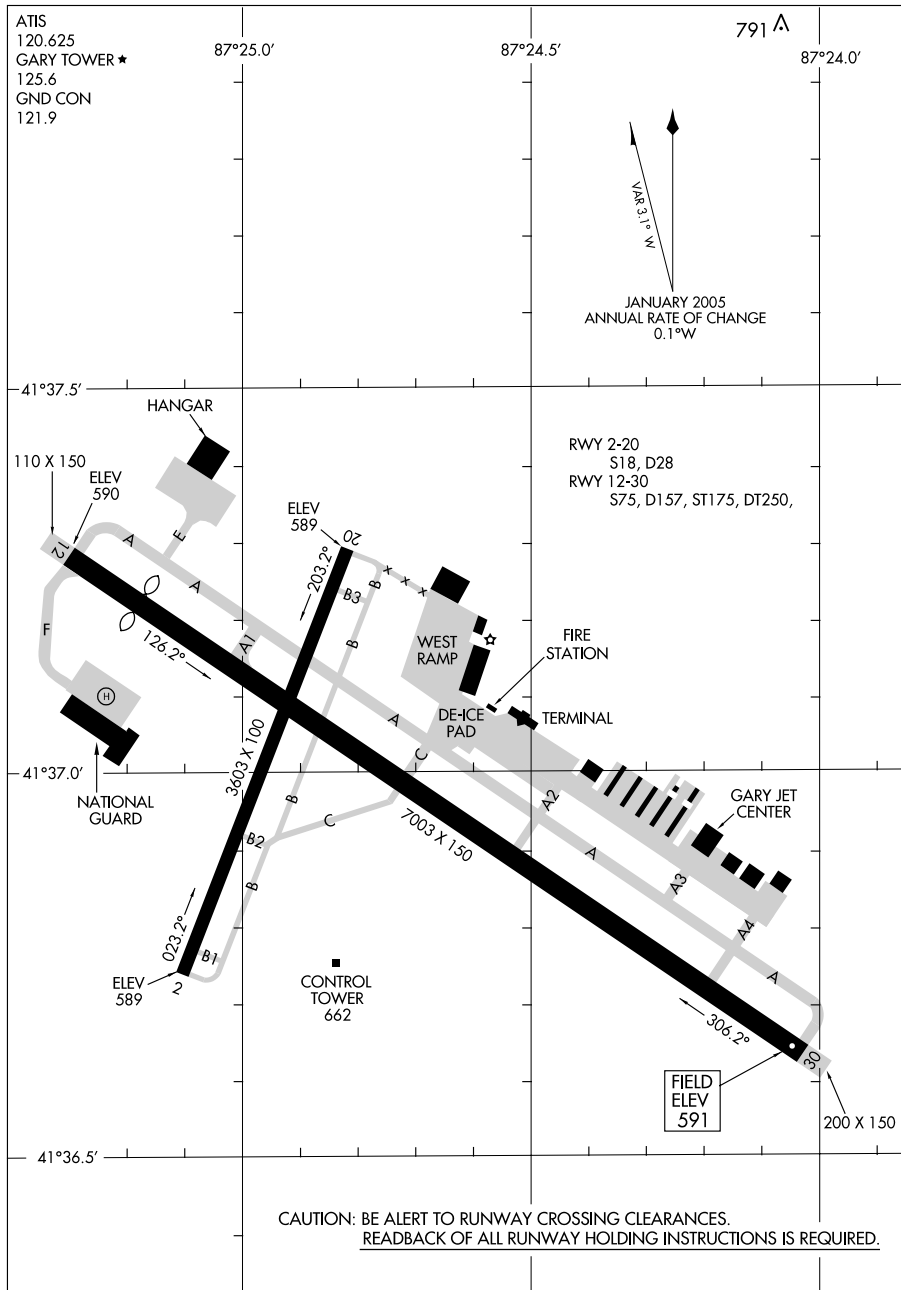




09015

## AIRPORT DIAGRAM

AL-748 (FAA)

GARY/CHICAGO INTL (GYY)  
GARY, INDIANA

## AIRPORT DIAGRAM

09015

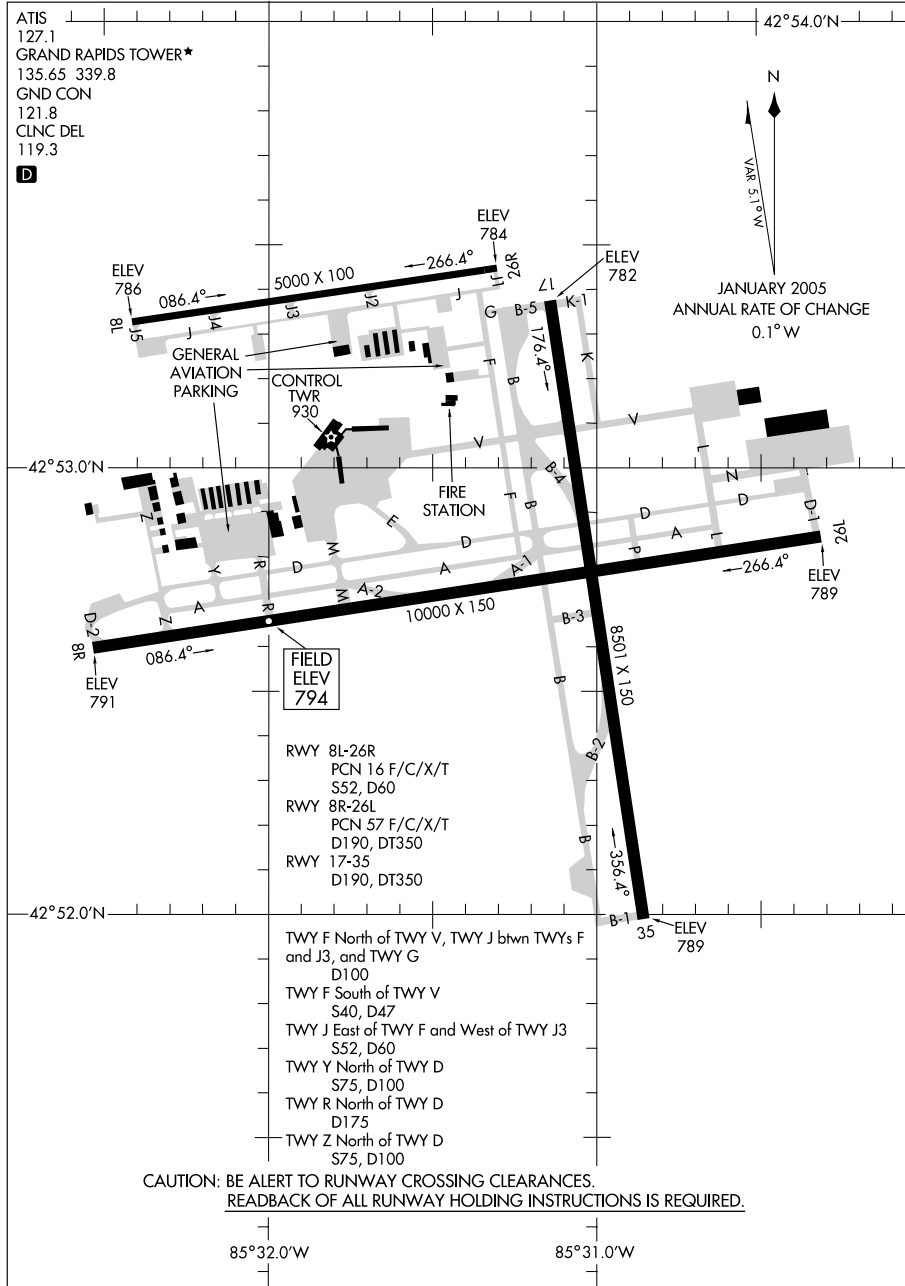
GARY, INDIANA  
GARY/CHICAGO INTL (GYY)



09351

## AIRPORT DIAGRAM

GRAND RAPIDS / GERALD R. FORD INTL (GRR)  
AL-5184 (FAA) GRAND RAPIDS, MICHIGAN



## AIRPORT DIAGRAM

09351

GRAND RAPIDS, MICHIGAN  
GRAND RAPIDS / GERALD R. FORD INTL (GRR)



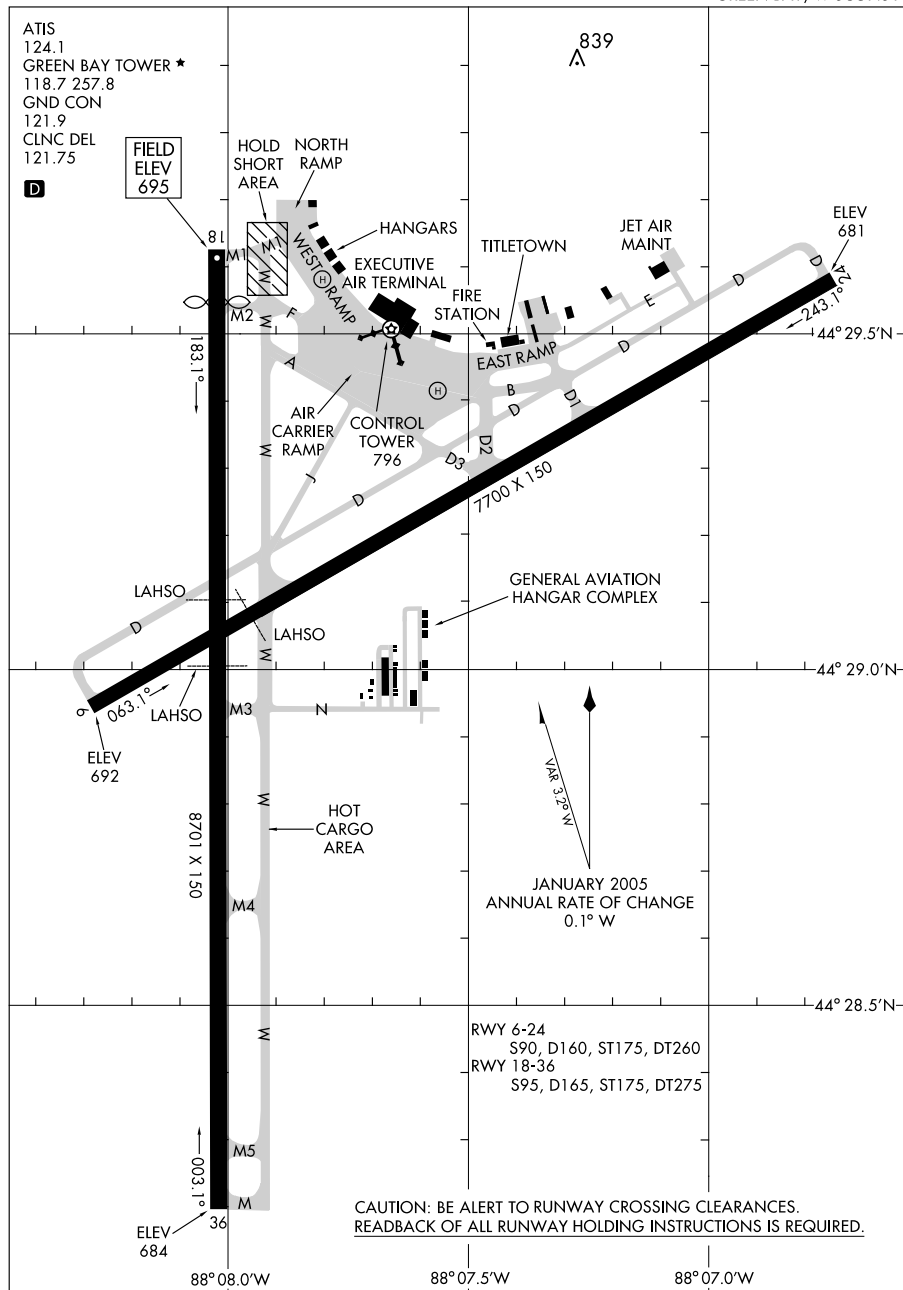
09183

## AIRPORT DIAGRAM

AL-873 (FAA)

GREEN BAY/AUSTIN STRAUBEL INTL (GRB)

GREEN BAY, WISCONSIN



## AIRPORT DIAGRAM

09183

GREEN BAY, WISCONSIN  
GREEN BAY/AUSTIN STRAUBEL INTL (GRB)



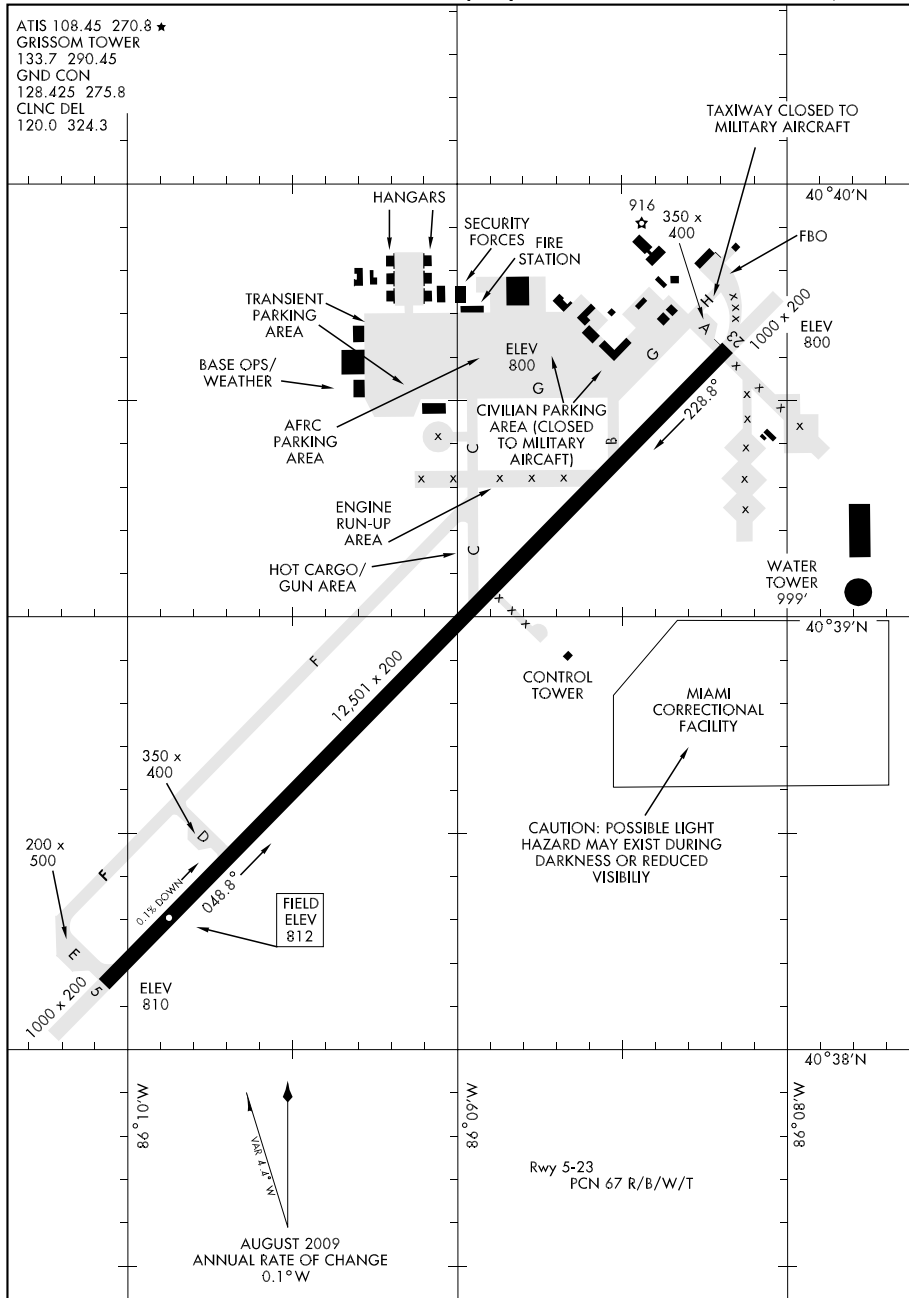
09239

## AIRPORT DIAGRAM

AFD-470 [USAF]

GRISSOM ARB (KGUS)

PERU, INDIANA



## AIRPORT DIAGRAM

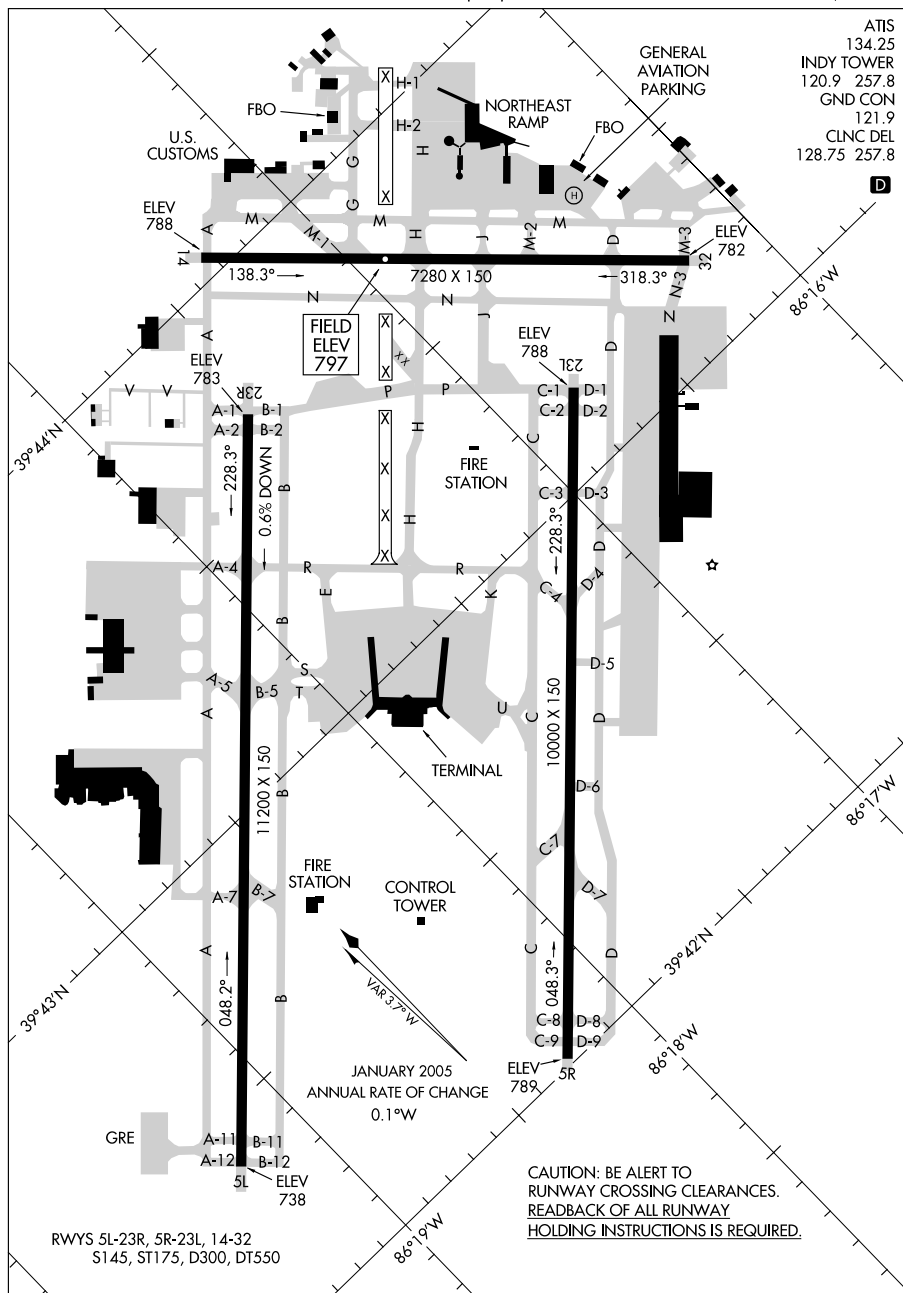
 PERU, INDIANA  
 GRISSOM ARB (KGUS)



09351

## AIRPORT DIAGRAM

AL-203 (FAA)

INDIANAPOLIS INTL (IND)  
INDIANAPOLIS, INDIANA

## AIRPORT DIAGRAM

09351

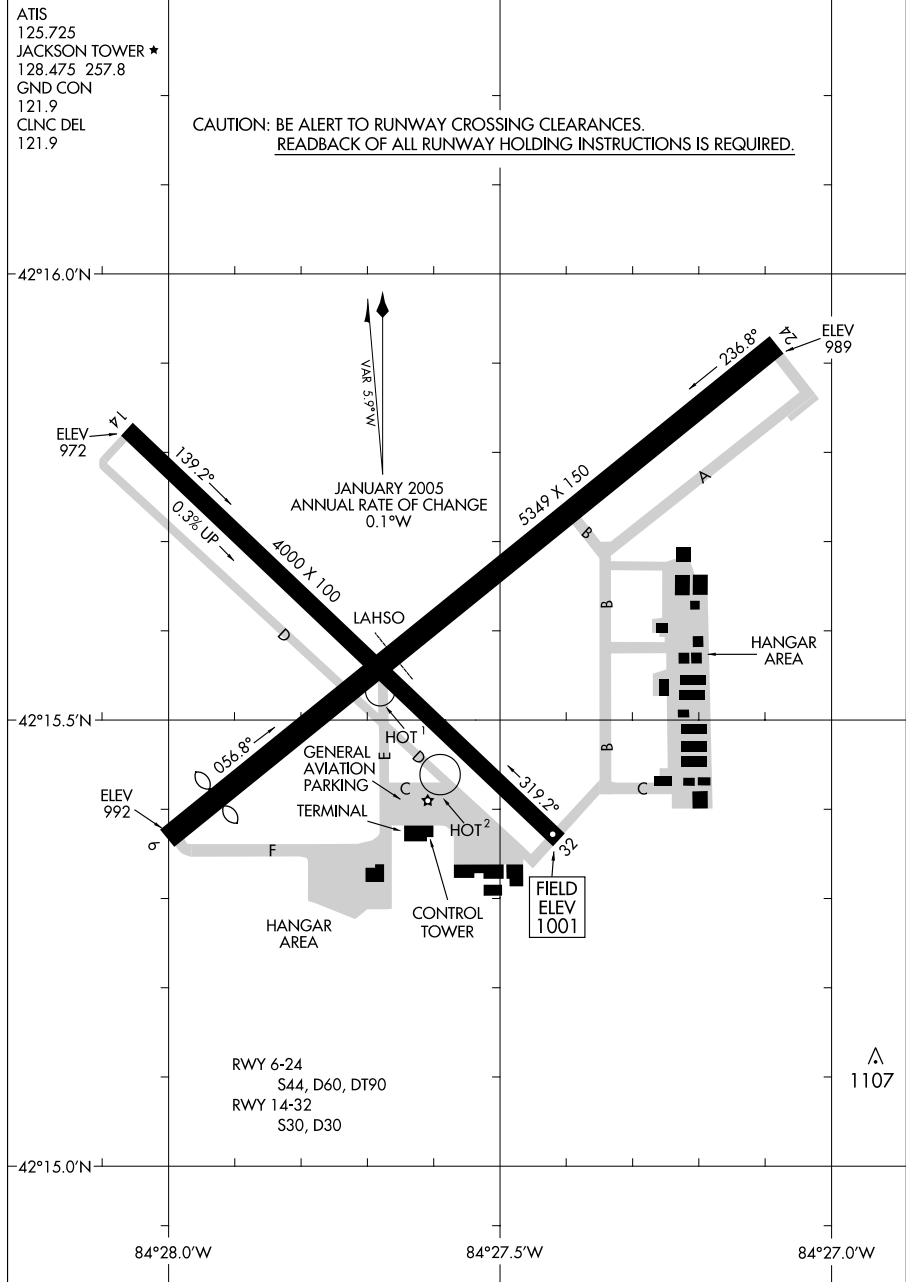
INDIANAPOLIS, INDIANA  
INDIANAPOLIS INTL (IND)



09295

## AIRPORT DIAGRAM

AL-861 (FAA)

JACKSON COUNTY-REYNOLDS FIELD (JXN)  
JACKSON, MICHIGAN

## AIRPORT DIAGRAM

09295

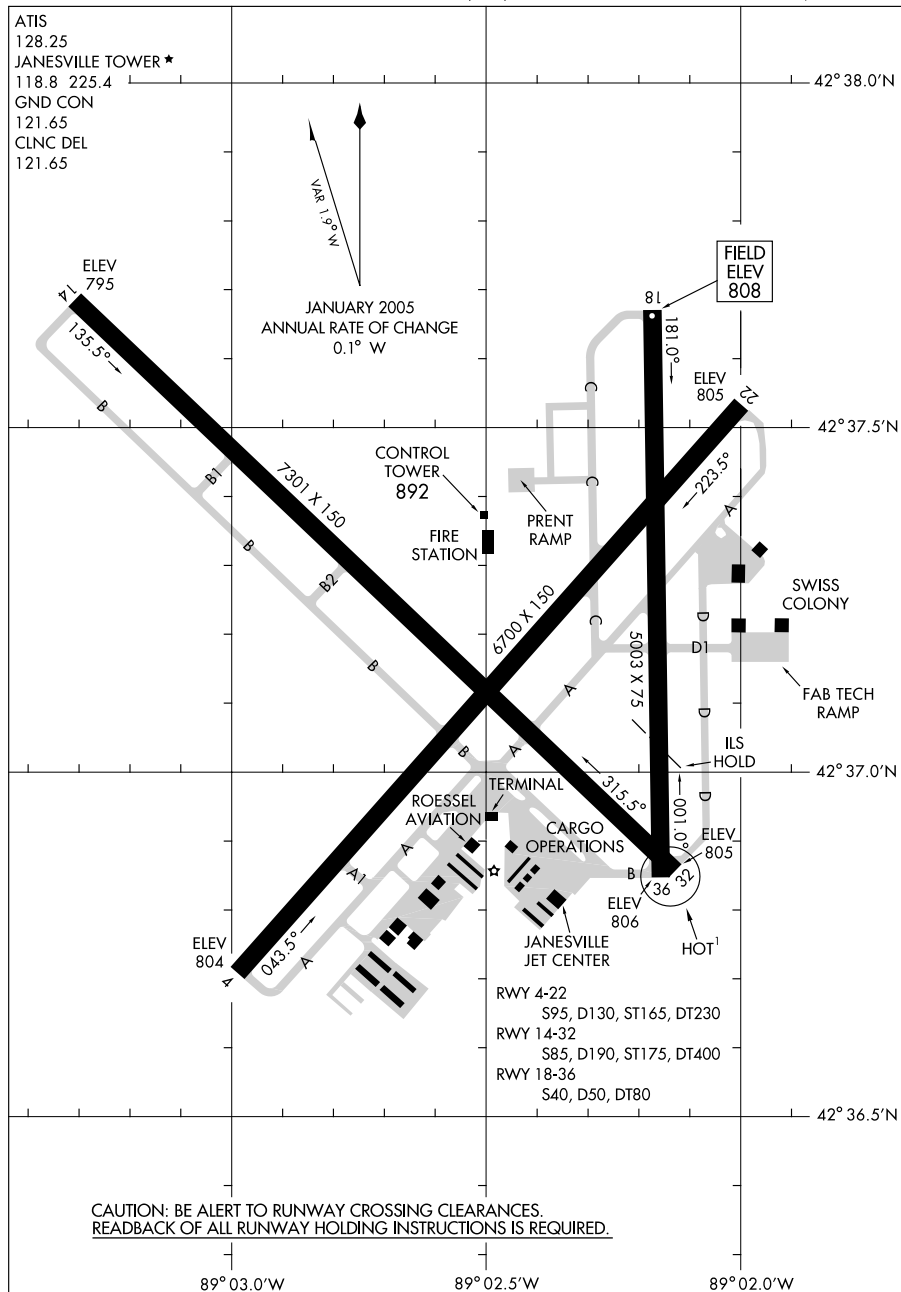
JACKSON, MICHIGAN  
JACKSON COUNTY-REYNOLDS FIELD (JXN)



09351

## AIRPORT DIAGRAM

JANESVILLE/SOUTHERN WISCONSIN RGNL (JVL)  
AL-938 (FAA) JANESVILLE, WISCONSIN



## AIRPORT DIAGRAM

09351

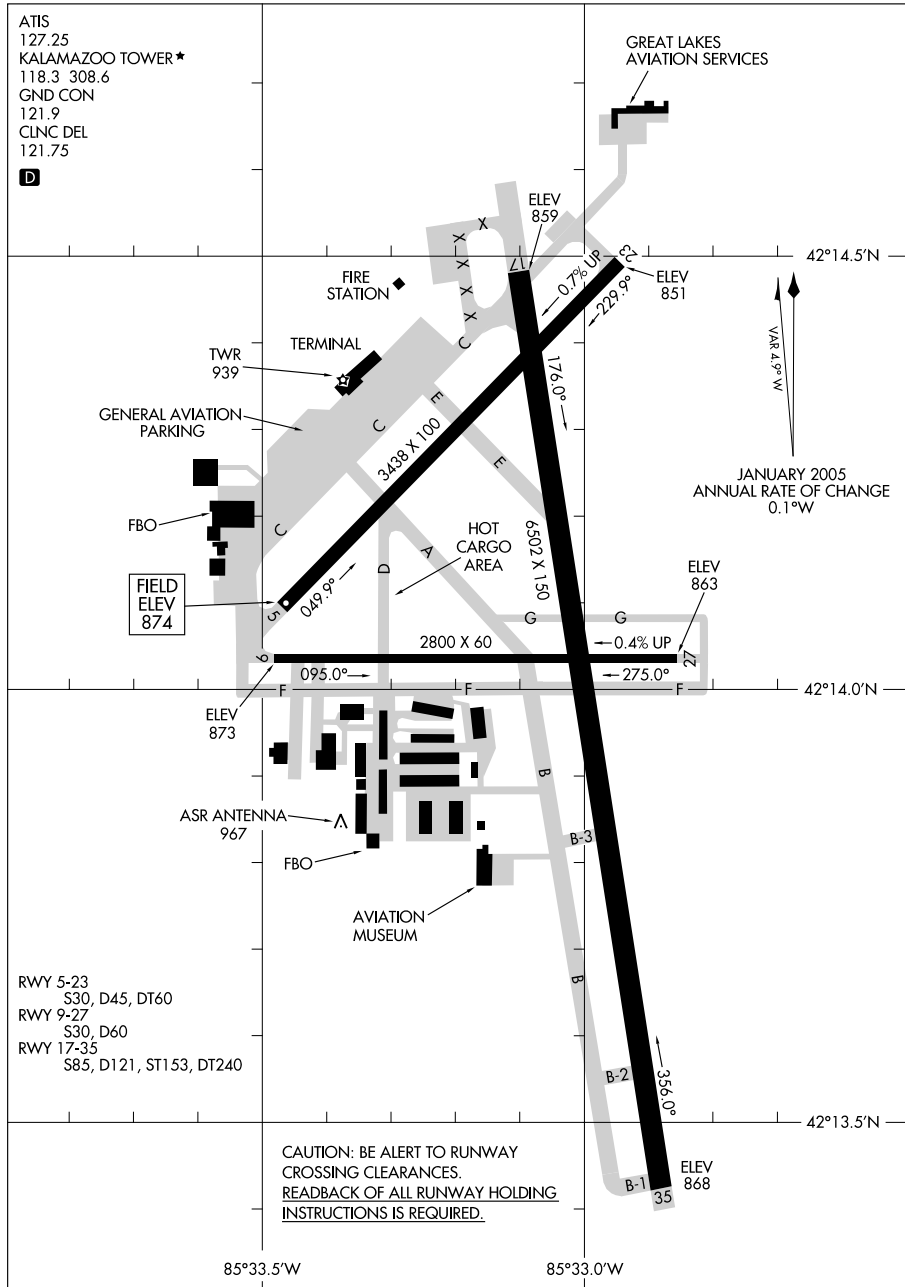
JANESVILLE, WISCONSIN  
JANESVILLE/SOUTHERN WISCONSIN RGNL (JVL)



09351

## AIRPORT DIAGRAM

AL-717 (FAA)

KALAMAZOO/ BATTLE CREEK INTL (AZO)  
KALAMAZOO, MICHIGAN

## AIRPORT DIAGRAM

09351

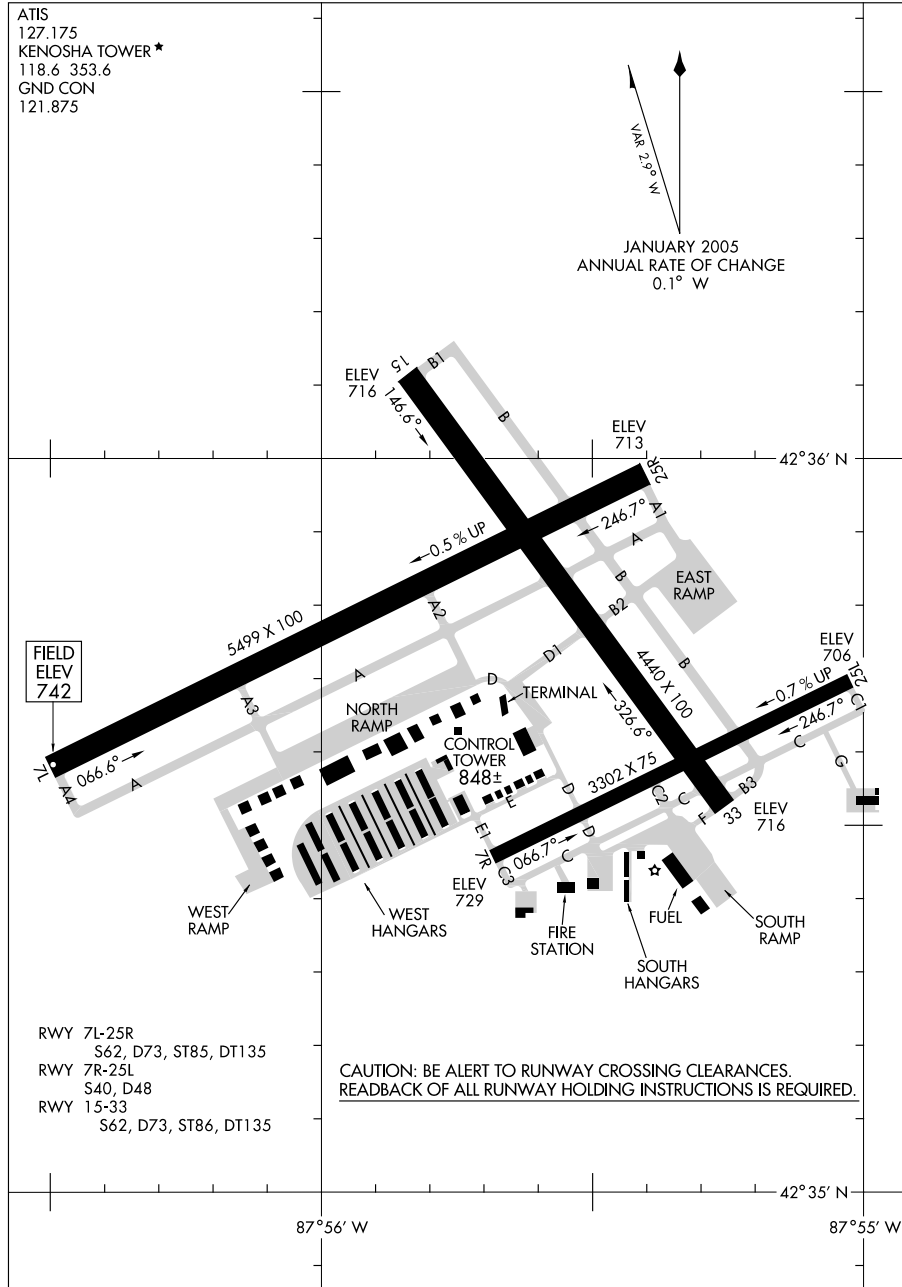
KALAMAZOO, MICHIGAN  
KALAMAZOO/ BATTLE CREEK INTL (AZO)



09239

## AIRPORT DIAGRAM

AL-5449 (FAA)

KENOSHA RGNL (ENW)  
KENOSHA, WISCONSIN

## AIRPORT DIAGRAM

09239

KENOSHA, WISCONSIN  
KENOSHA RGNL (ENW)

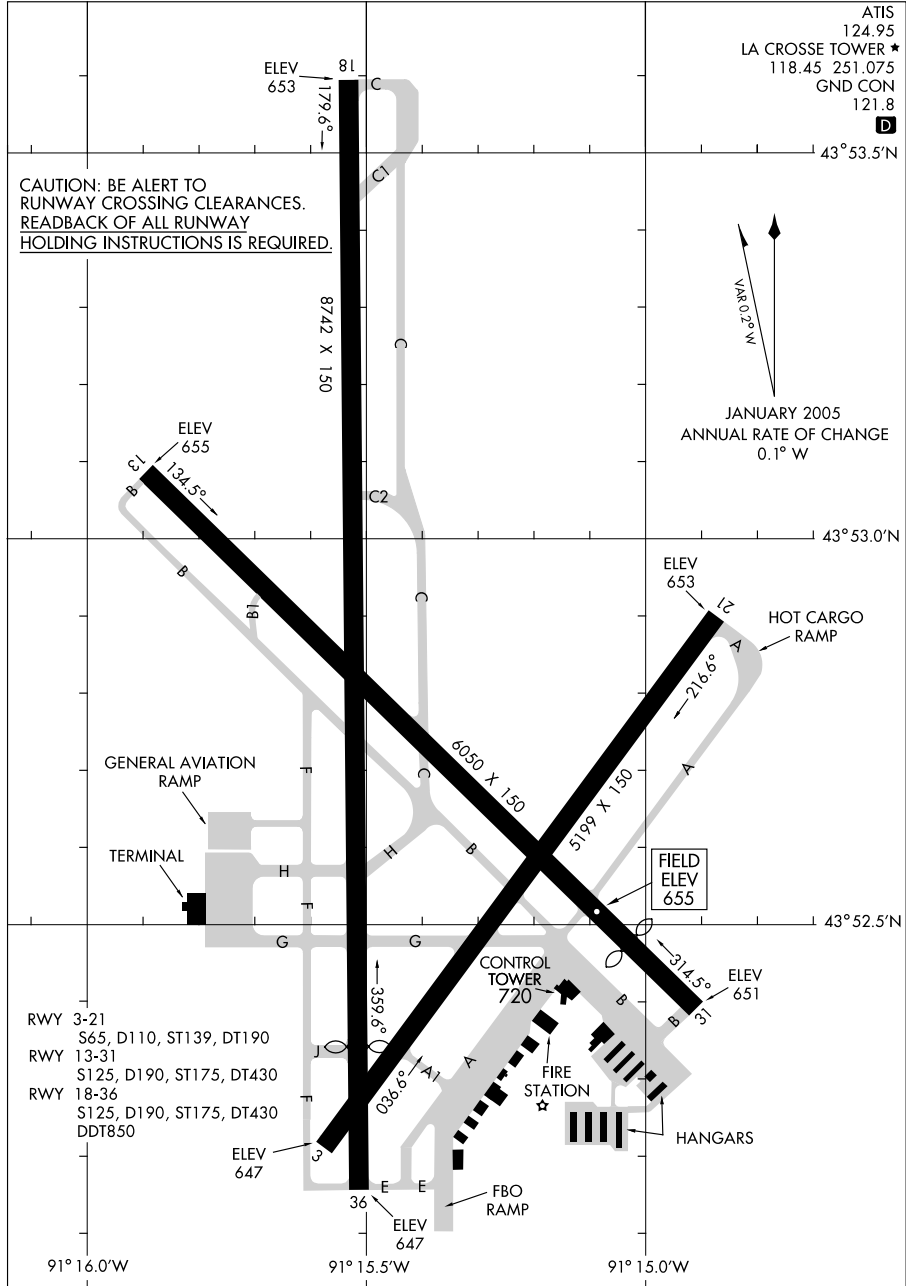


09295

# AIRPORT DIAGRAM

AL-219 (FAA)

LA CROSSE MUNI (LSE)  
LA CROSSE, WISCONSIN



# AIRPORT DIAGRAM

09295

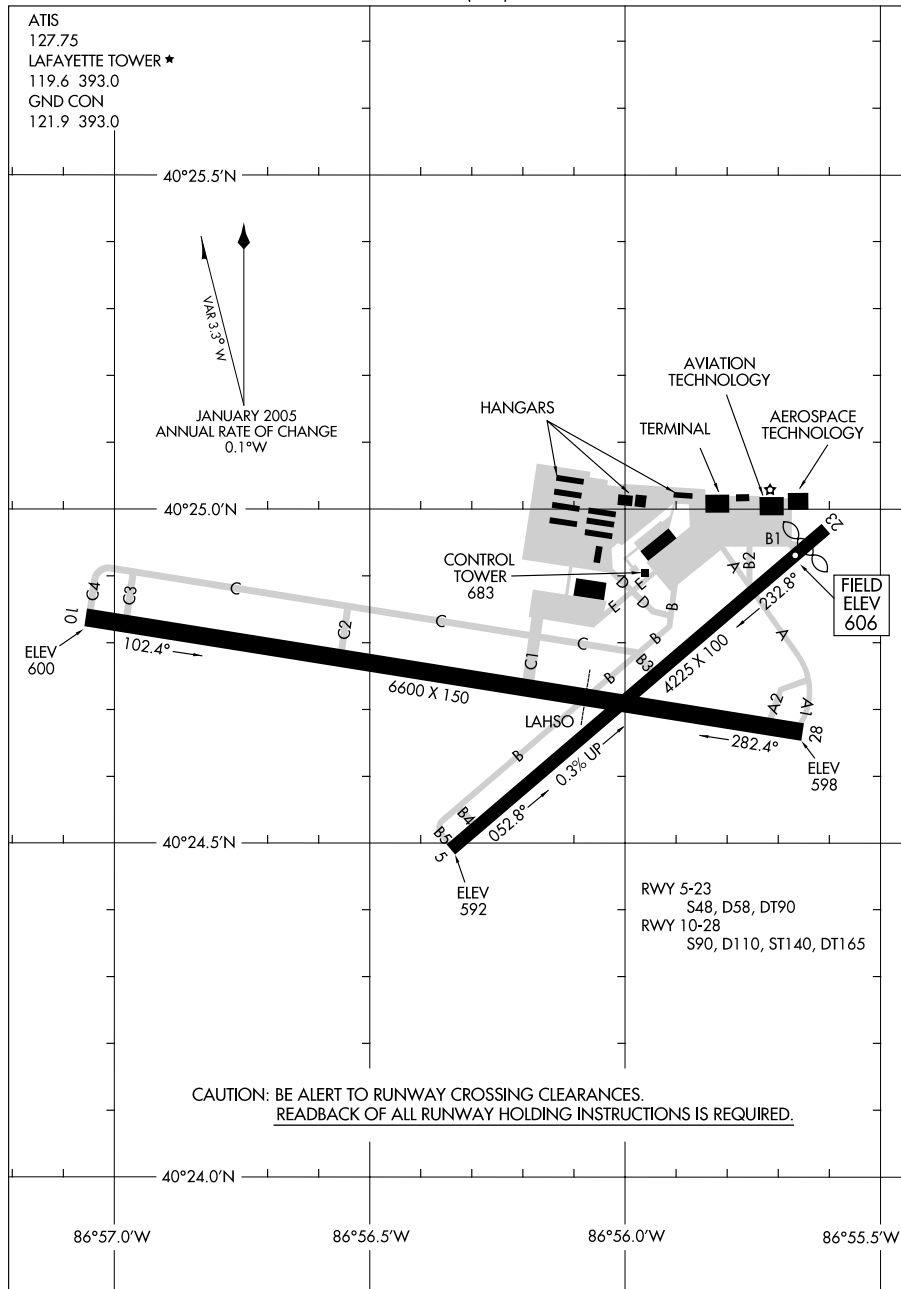
LA CROSSE, WISCONSIN  
LA CROSSE MUNI (LSE)



09071

## AIRPORT DIAGRAM

AL-220 (FAA)

LAFAYETTE/ PURDUE UNIVERSITY (LAF)  
LAFAYETTE, INDIANA

## AIRPORT DIAGRAM

09071

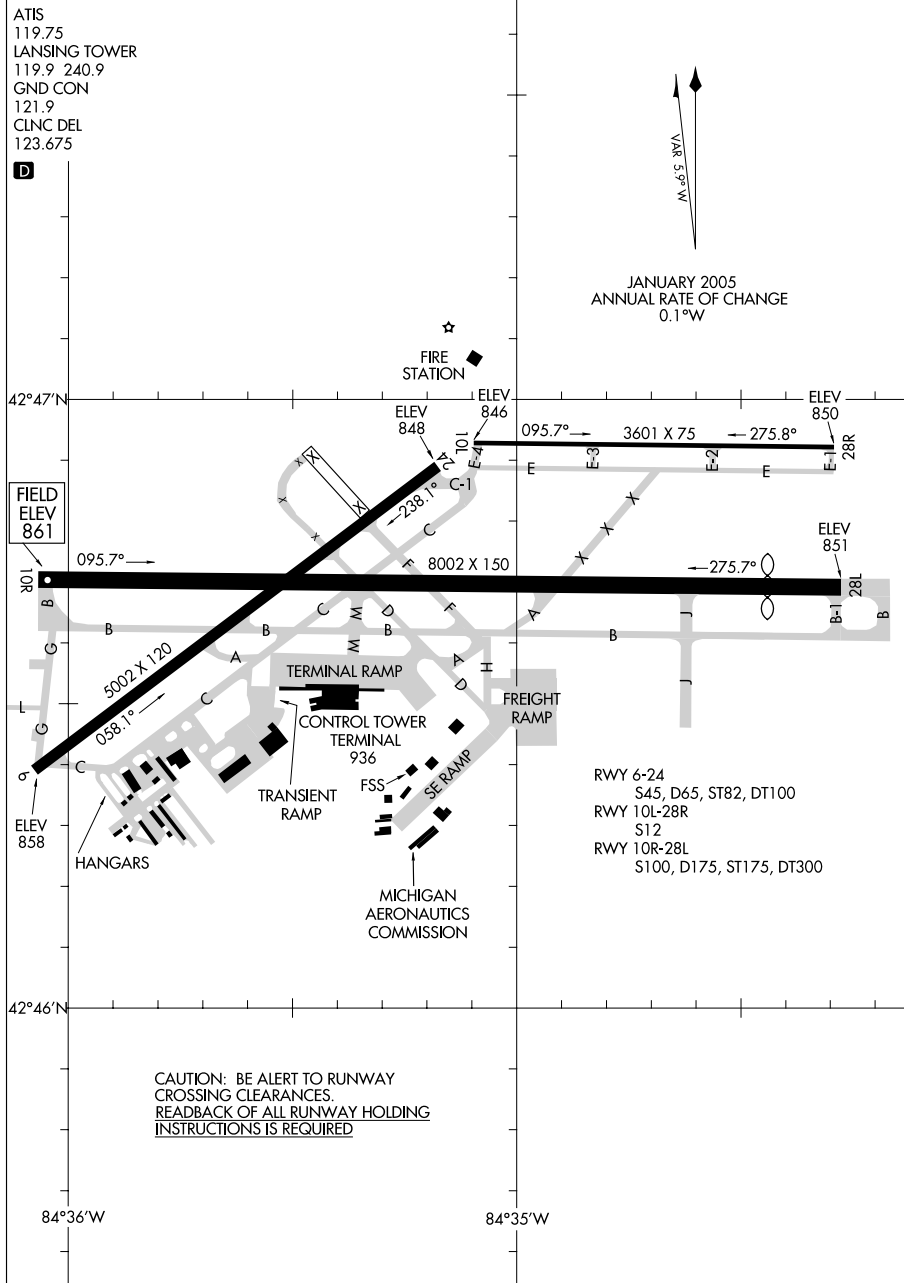
LAFAYETTE, INDIANA  
LAFAYETTE/ PURDUE UNIVERSITY (LAF)



09351

## AIRPORT DIAGRAM

AL-224 (FAA)

LANSING/ CAPITAL CITY (L.A.N)  
LANSING, MICHIGAN

## AIRPORT DIAGRAM

09351

LANSING, MICHIGAN  
LANSING/ CAPITAL CITY (L.A.N)



09351

## AIRPORT DIAGRAM

MADISON/DANE COUNTY RGNL TRUAX FIELD (MSN)

AL-245 (FAA)

MADISON, WISCONSIN

ATIS

124.65 278.3

MADISON TOWER\*

119.3 257.8

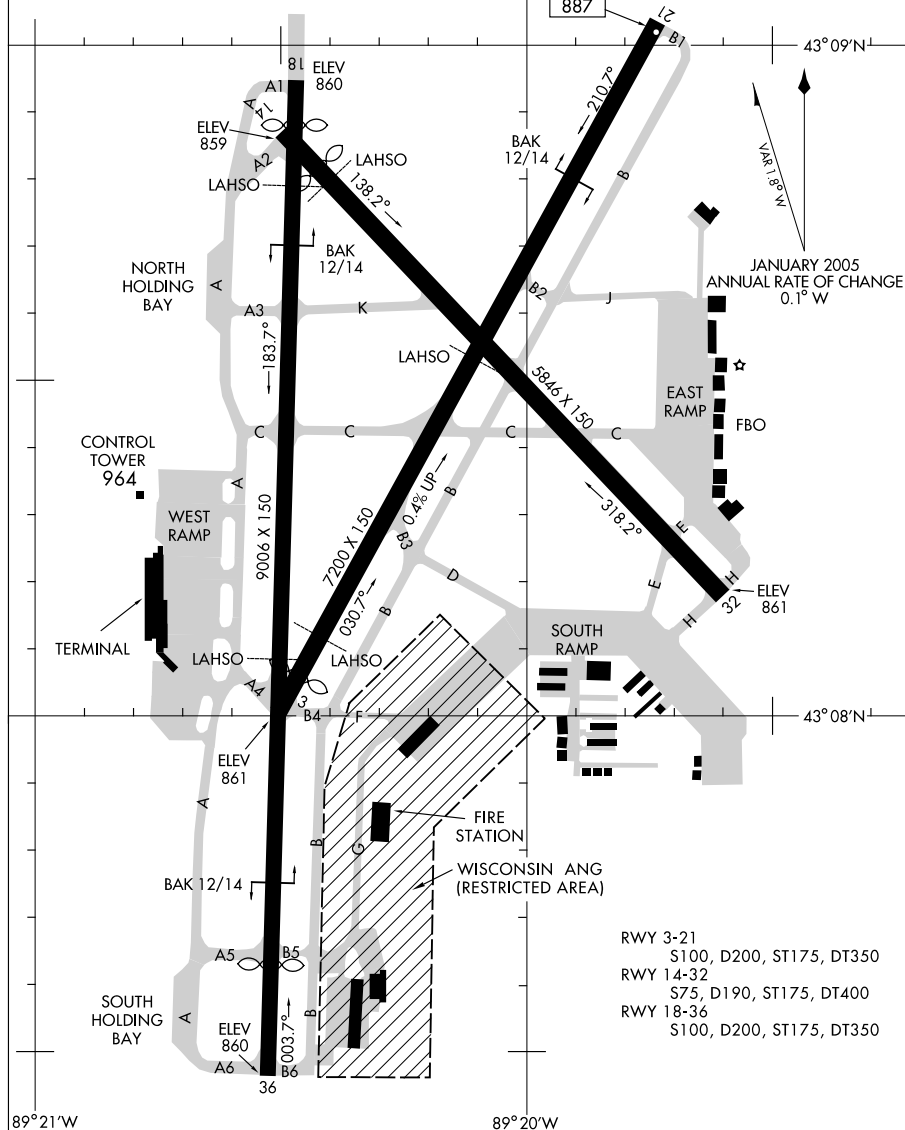
GND CON

121.9 348.6

CLNC DEL

121.62

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



## AIRPORT DIAGRAM

09351

MADISON/DANE COUNTY RGNL TRUAX FIELD (MSN)

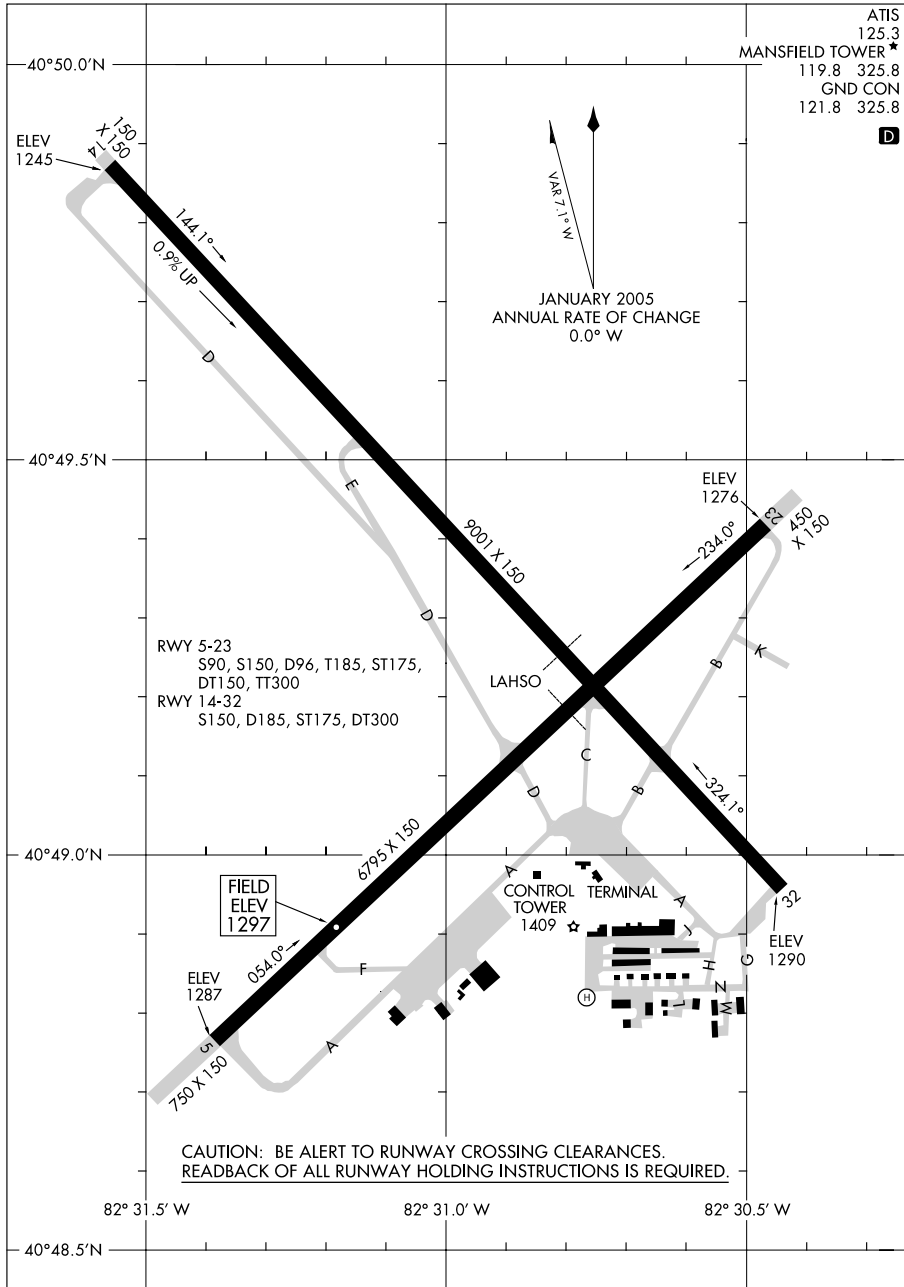
MADISON, WISCONSIN



09351

## AIRPORT DIAGRAM

AL-860 (FAA)

MANSFIELD LAHM RGNL (MFD)  
MANSFIELD, OHIO

## AIRPORT DIAGRAM

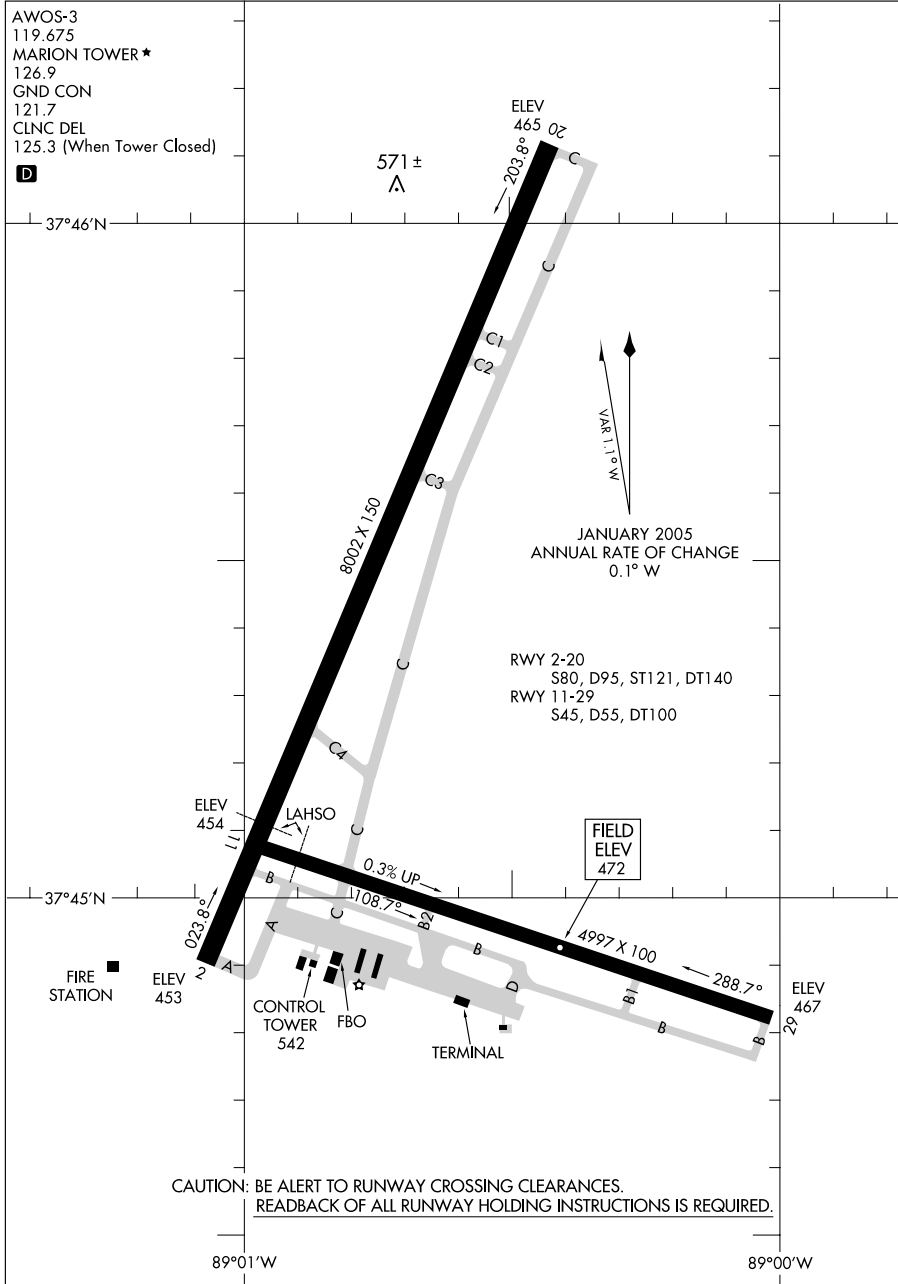
09351

MANSFIELD, OHIO  
MANSFIELD LAHM RGNL (MFD)



09295

## AIRPORT DIAGRAM

MARION / WILLIAMSON COUNTY RGNL (MWA)  
AL-5215 (FAA)  
MARION, ILLINOIS

## AIRPORT DIAGRAM

09295

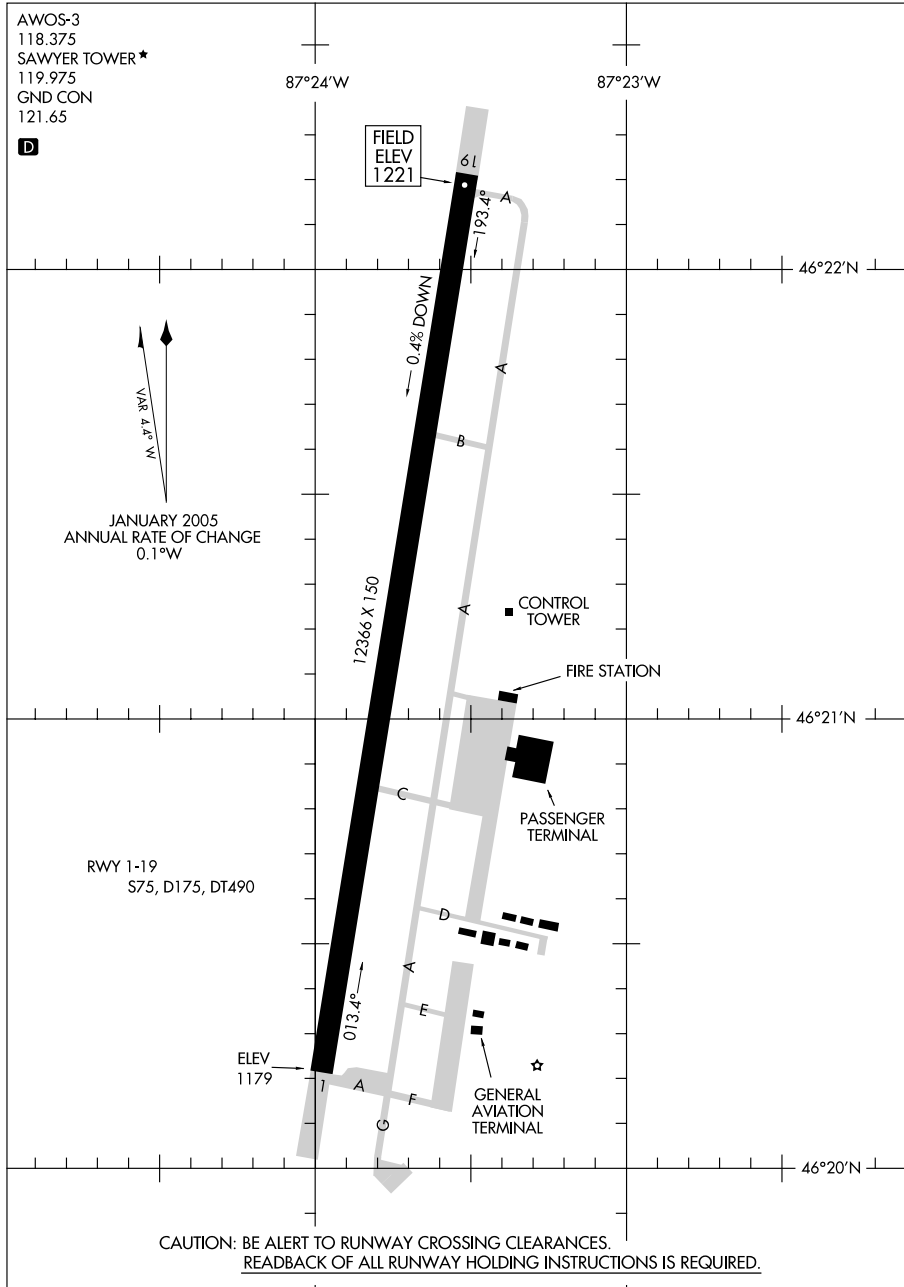
MARION, ILLINOIS  
MARION / WILLIAMSON COUNTY RGNL (MWA)



09295

## AIRPORT DIAGRAM

AL-773 (FAA)

MARQUETTE/ SAWYER INTL (SAW)  
MARQUETTE, MICHIGAN

## AIRPORT DIAGRAM

09295

MARQUETTE, MICHIGAN  
MARQUETTE/ SAWYER INTL (SAW)



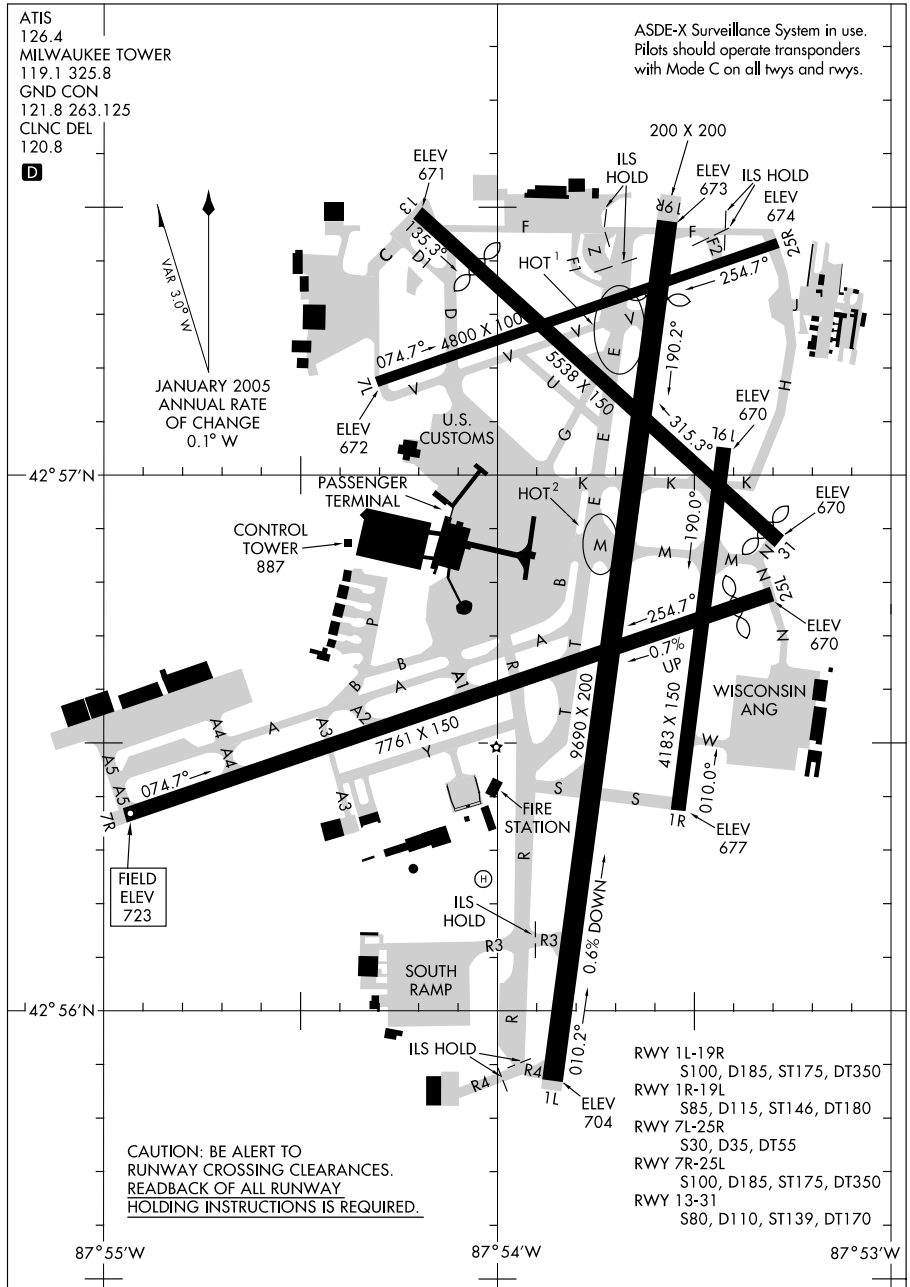
09351

# AIRPORT DIAGRAM

MILWAUKEE/GENERAL MITCHELL INTL (MKE)

AL-262 (FAA)

MILWAUKEE, WISCONSIN



## AIRPORT DIAGRAM

09351

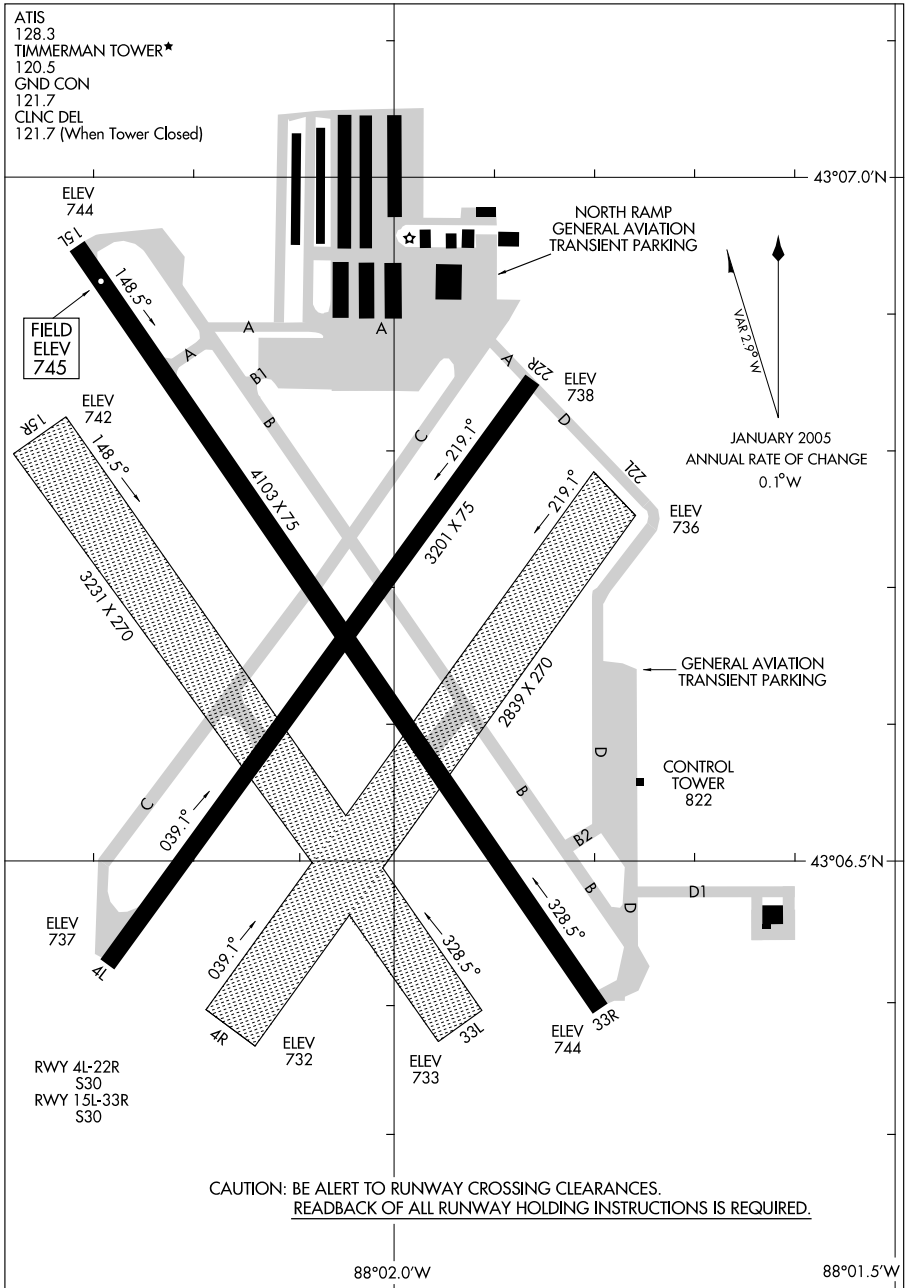
MILWAUKEE, WISCONSIN

MILWAUKEE/GENERAL MITCHELL INTL (MKE)



09295

## AIRPORT DIAGRAM

MILWAUKEE/ LAWRENCE J. TIMMERMAN (MWC)  
AL-5077 (FAA) MILWAUKEE, WISCONSIN

## AIRPORT DIAGRAM

09295

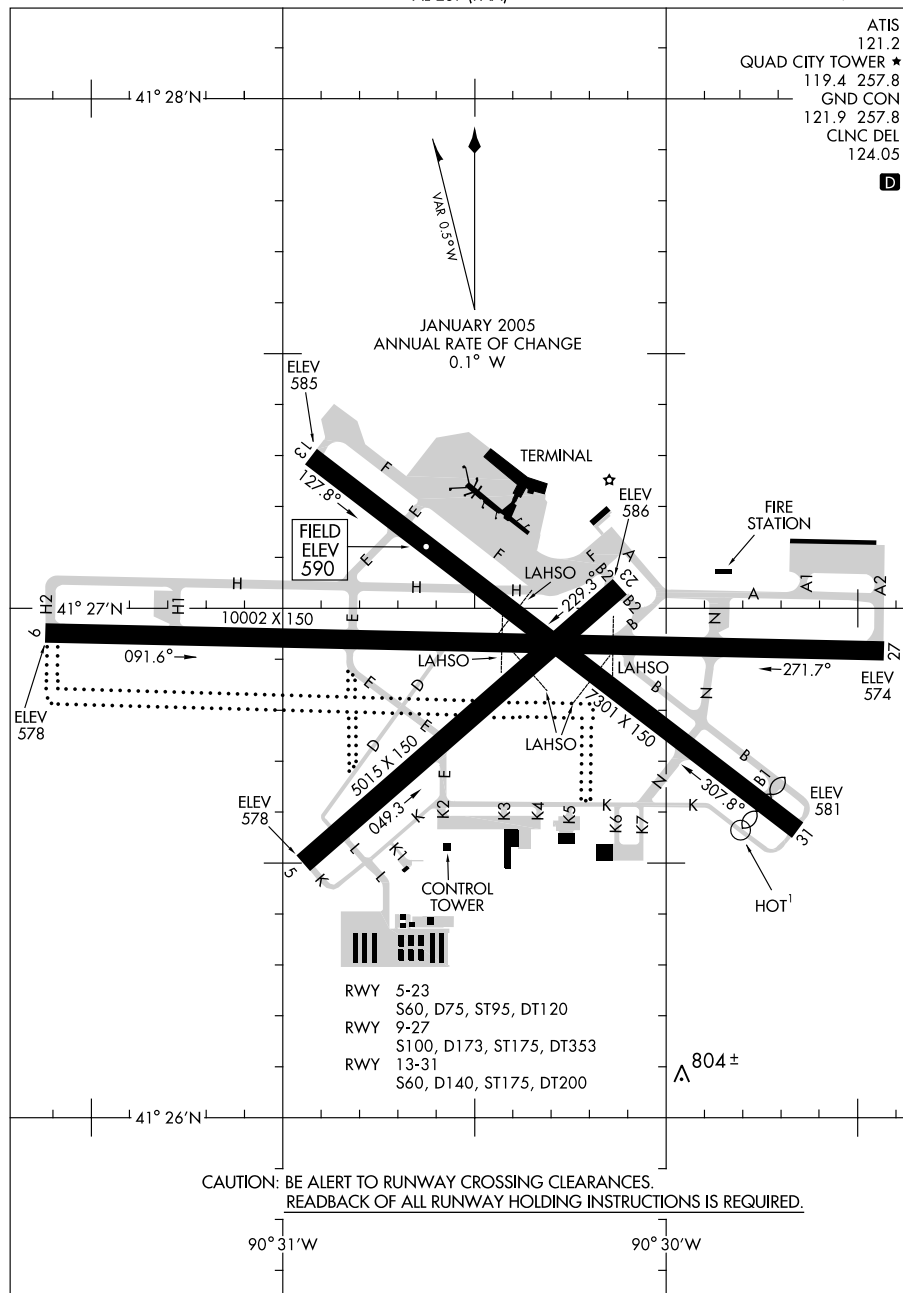
MILWAUKEE, WISCONSIN  
MILWAUKEE/ LAWRENCE J. TIMMERMAN (MWC)



09295

## AIRPORT DIAGRAM

AL-269 (FAA)

 MOLINE/QUAD CITY INTL (MLI)  
 MOLINE, ILLINOIS


## AIRPORT DIAGRAM

09295

 MOLINE, ILLINOIS  
 MOLINE/QUAD CITY INTL (MLI)

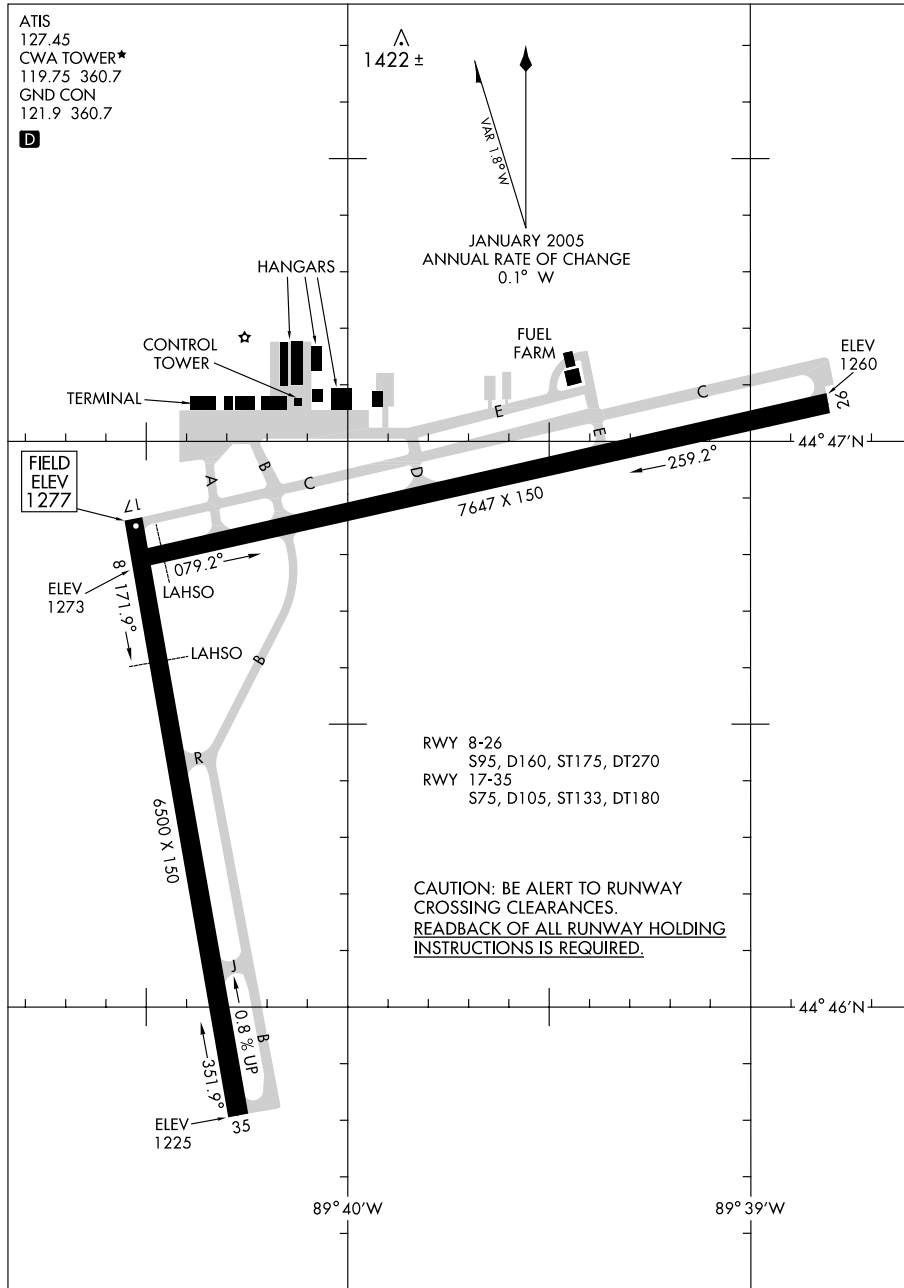


09295

## AIRPORT DIAGRAM

MOSINEE/CENTRAL WISCONSIN (CWA)  
MOSINEE, WISCONSIN

AL-5674 (FAA)



## AIRPORT DIAGRAM

09295

MOSINEE, WISCONSIN  
MOSINEE/CENTRAL WISCONSIN (CWA)

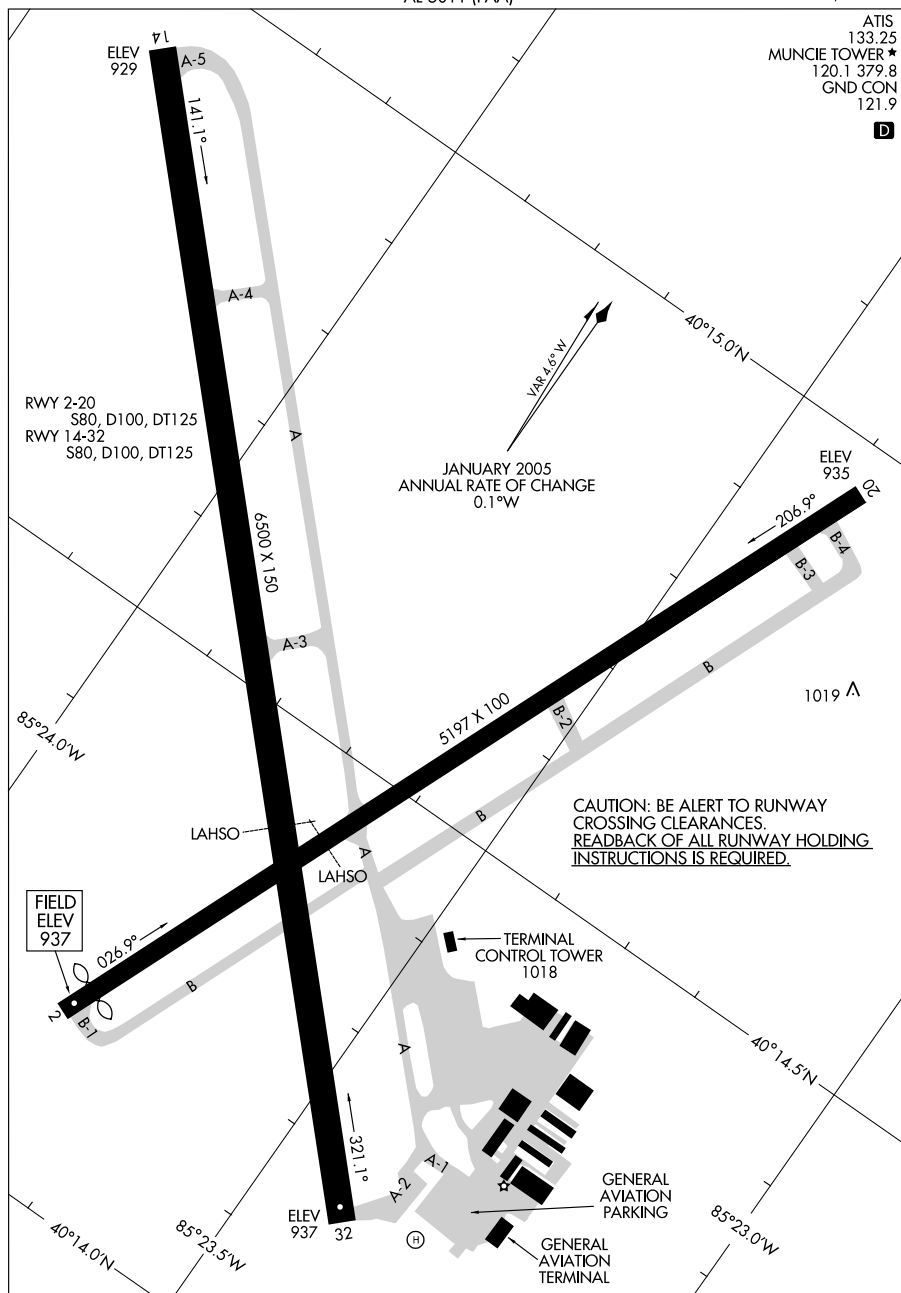


09295

## AIRPORT DIAGRAM

MUNCIE/DELAWARE COUNTY-JOHNSON FIELD (MIE)  
AL-5011 (FAA)

MUNCIE, INDIANA



## AIRPORT DIAGRAM

09295

MUNCIE, INDIANA  
MUNCIE/DELAWARE COUNTY-JOHNSON FIELD (MIE)

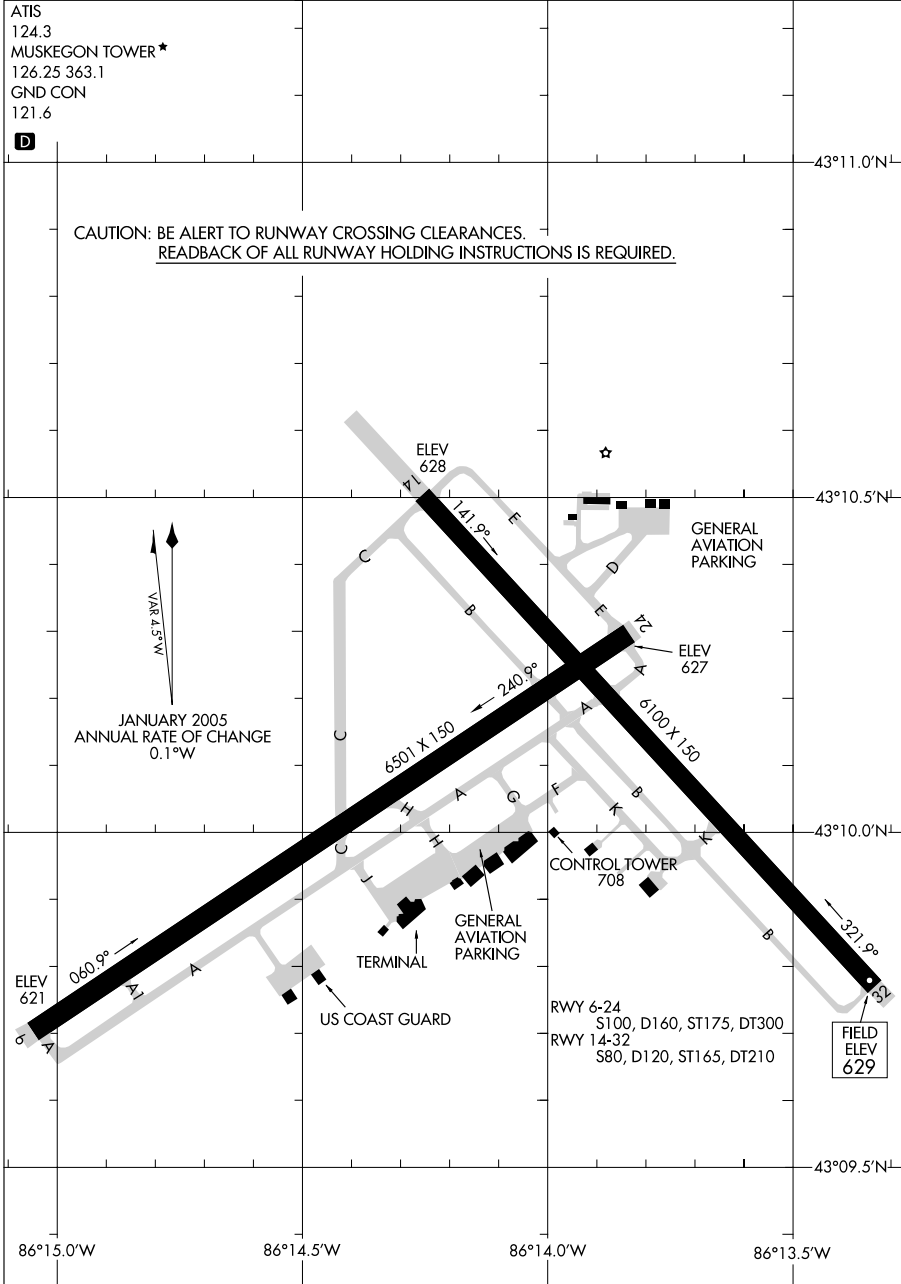


09295

# AIRPORT DIAGRAM

AL-278 (FAA)

MUSKEGON COUNTY (MKG)  
MUSKEGON, MICHIGAN



# AIRPORT DIAGRAM

09295

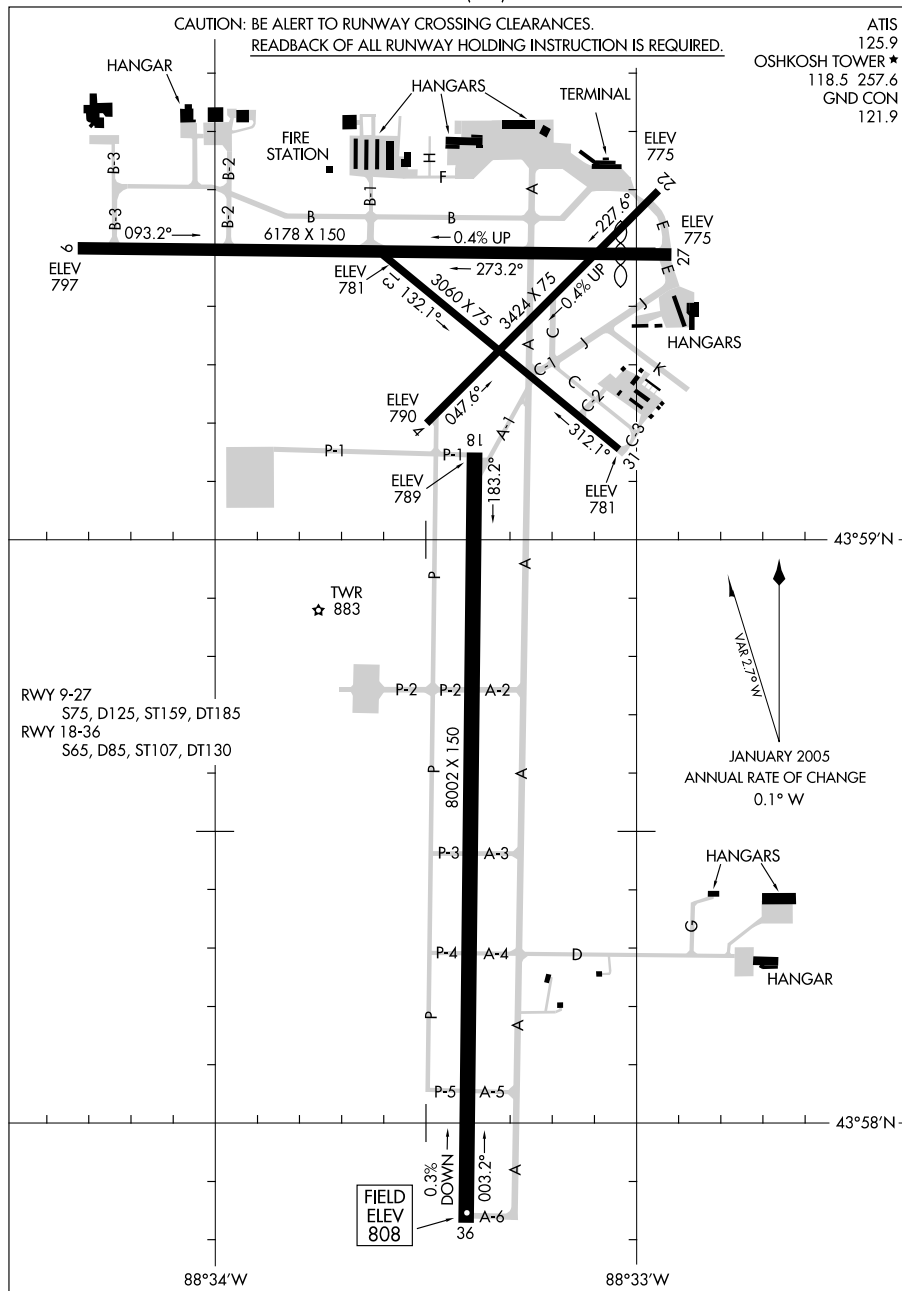
MUSKEGON, MICHIGAN  
MUSKEGON COUNTY (MKG)



09295

## AIRPORT DIAGRAM

AL-730 (FAA)

 OSHKOSH/ WITTMAN RGNL (OSH)  
 OSHKOSH, WISCONSIN


## AIRPORT DIAGRAM

09295

 OSHKOSH, WISCONSIN  
 OSHKOSH/ WITTMAN RGNL (OSH)









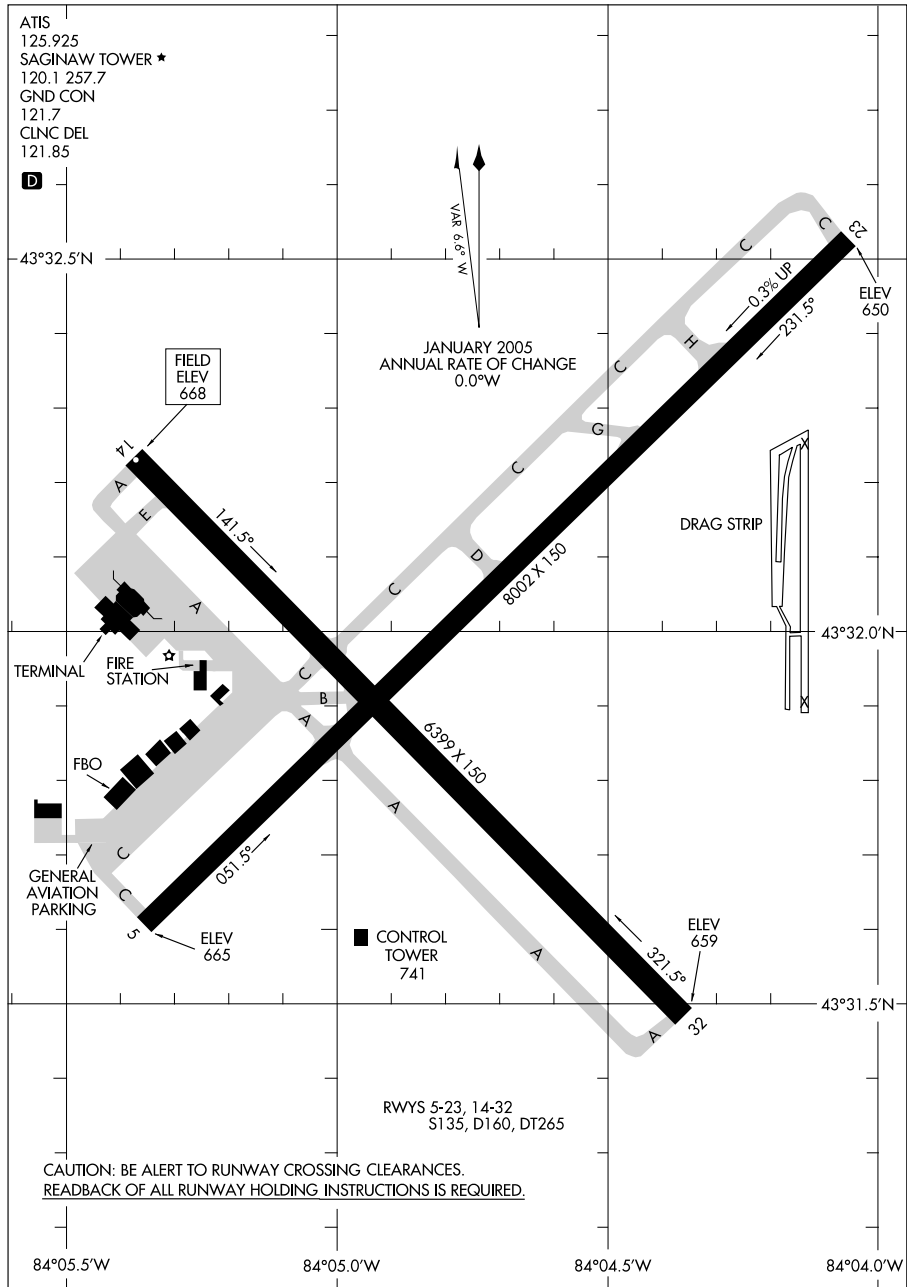


09351

# AIRPORT DIAGRAM

AL-648 (FAA)

SAGINAW / MBS INTL (MBS)  
SAGINAW, MICHIGAN



# AIRPORT DIAGRAM

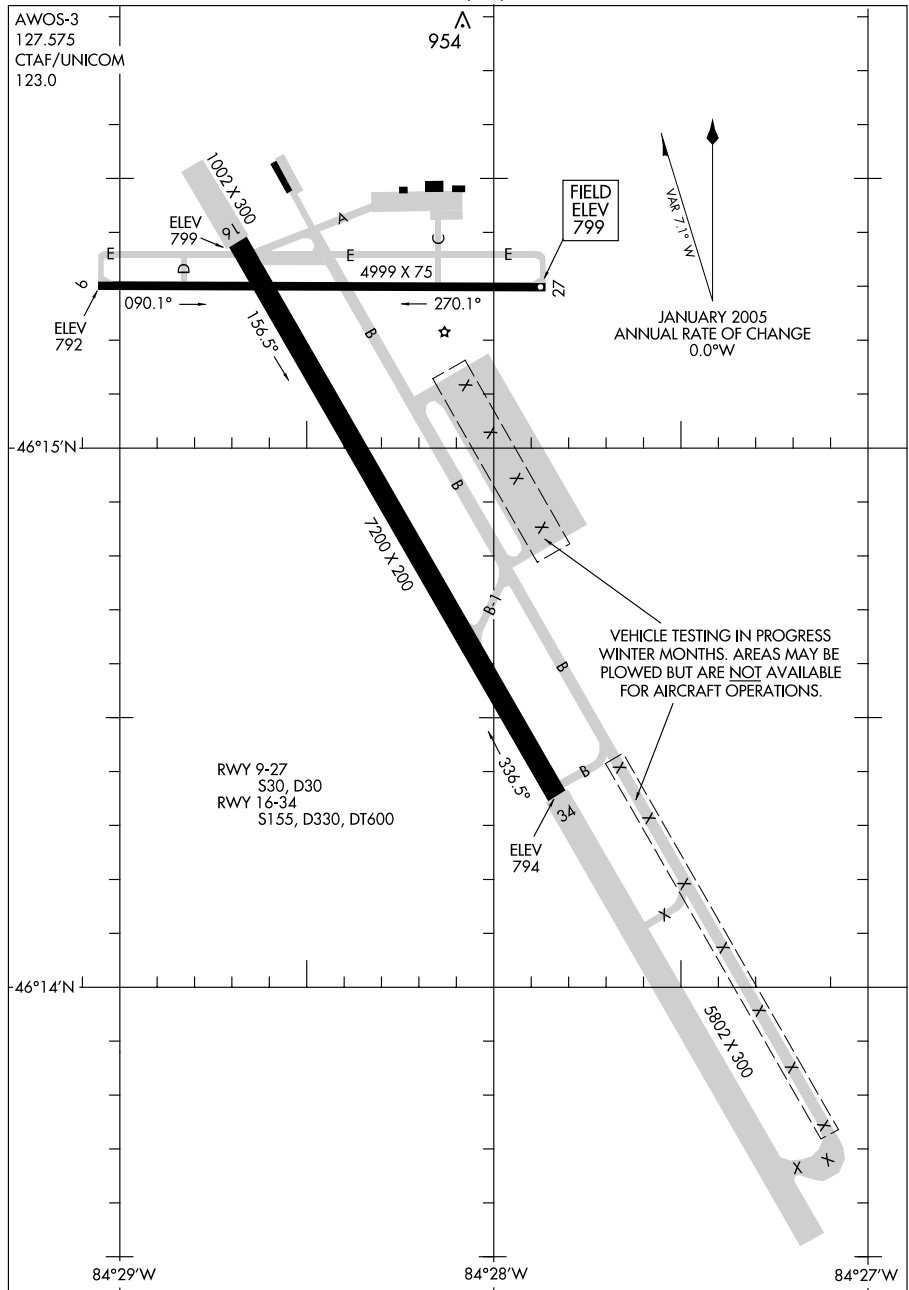
09351

SAGINAW, MICHIGAN  
SAGINAW / MBS INTL (MBS)



09071

## AIRPORT DIAGRAM

SAULT STE MARIE/CHIPPEWA COUNTY INTL (CIU)  
SAULT STE MARIE, MICHIGAN

## AIRPORT DIAGRAM

09071

SAULT STE MARIE, MICHIGAN  
SAULT STE MARIE/CHIPPEWA COUNTY INTL (CIU)



09351

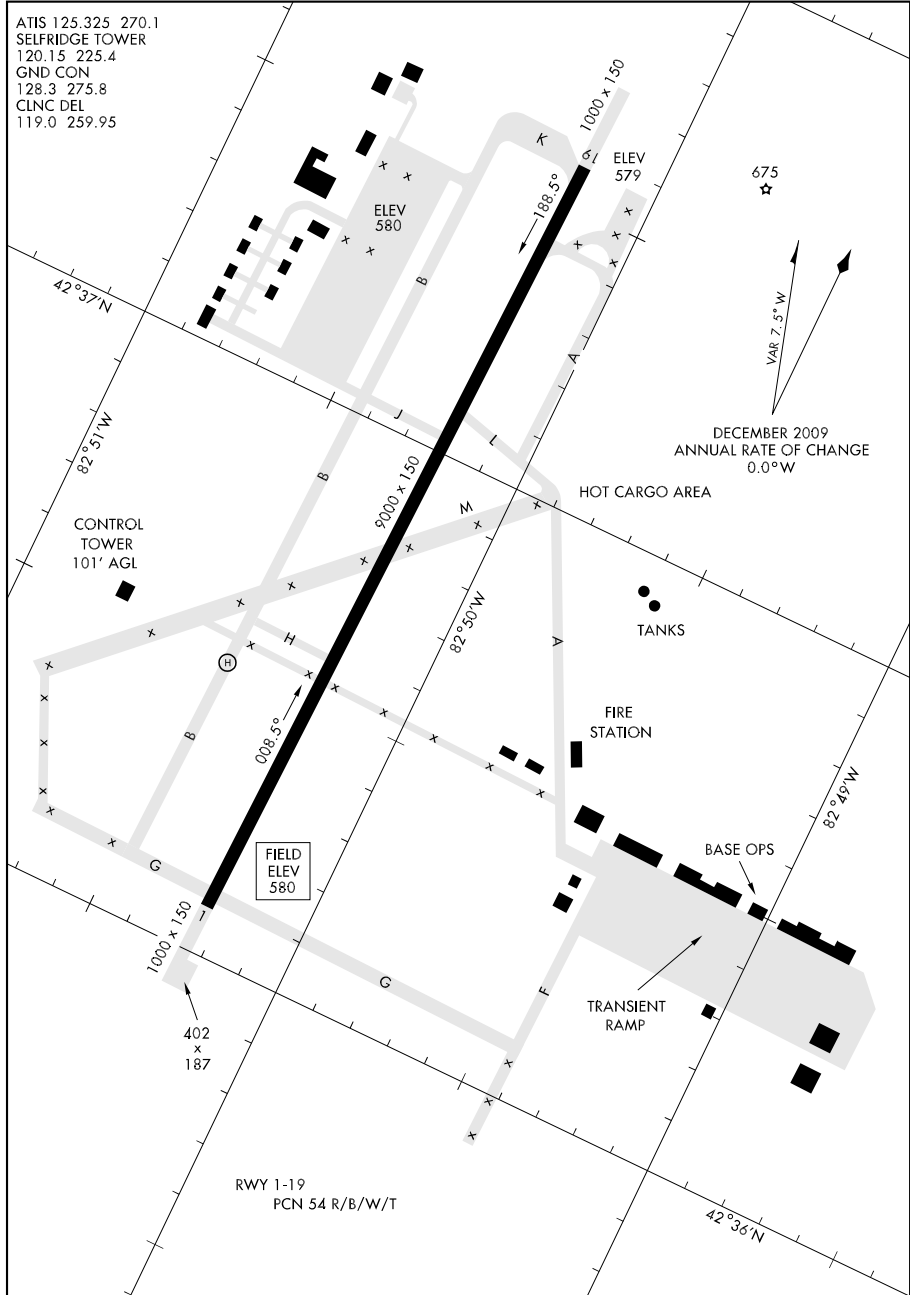
## AIRPORT DIAGRAM

AFD-276 [USAF]

SELFREDGE ANGB (KMTG)

MT. CLEMENS, MICHIGAN

ATIS 125.325 270.1  
 SELFREDGE TOWER  
 120.15 225.4  
 GND CON  
 128.3 275.8  
 CLNC DEL  
 119.0 259.95



## AIRPORT DIAGRAM

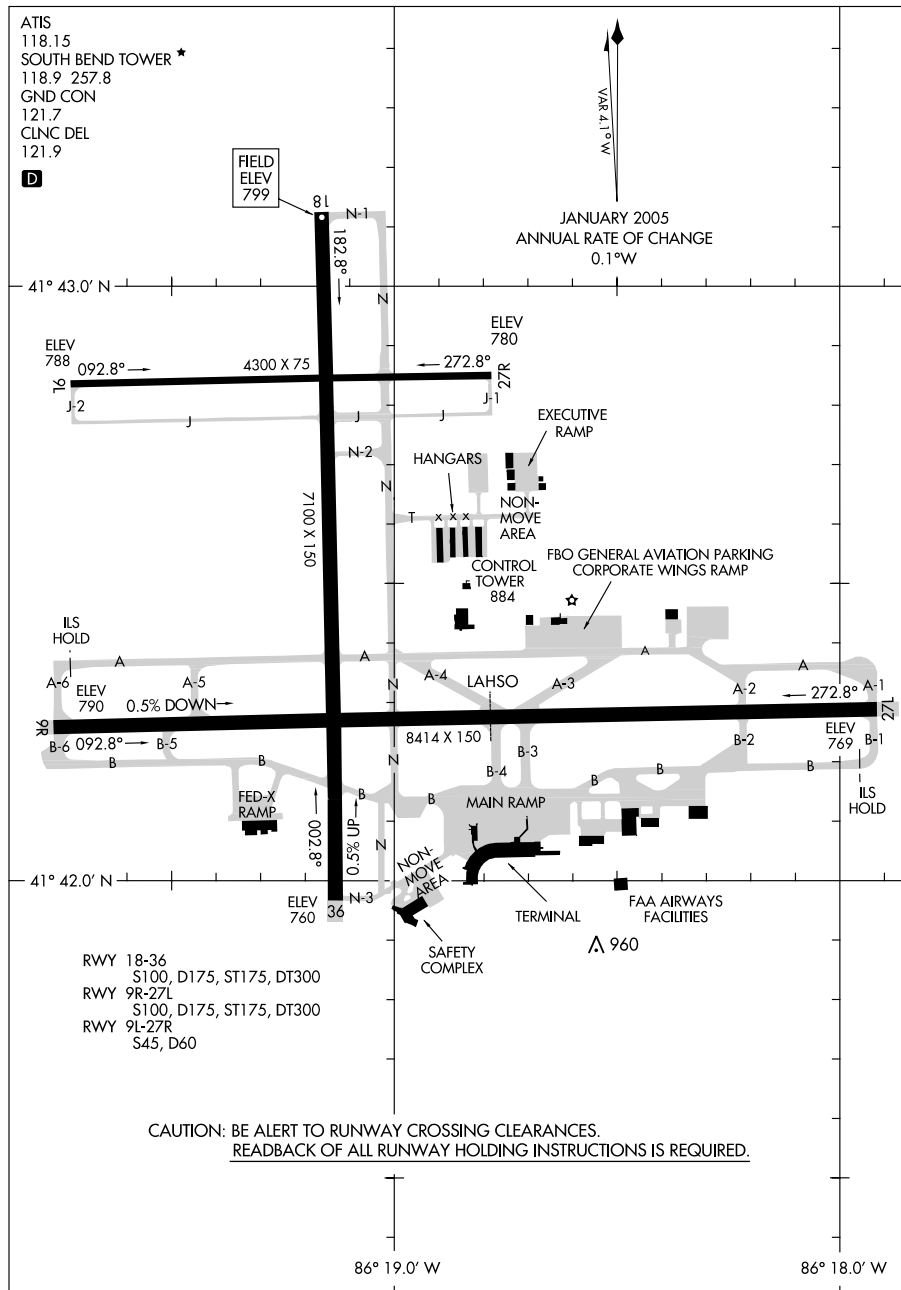
MT. CLEMENS, MICHIGAN  
 SELFREDGE ANGB (KMTG)



09295

## AIRPORT DIAGRAM

AL-399 (FAA)

SOUTH BEND RGNL (SBN)  
SOUTH BEND, INDIANA

## AIRPORT DIAGRAM

09295

SOUTH BEND, INDIANA  
SOUTH BEND RGNL (SBN)



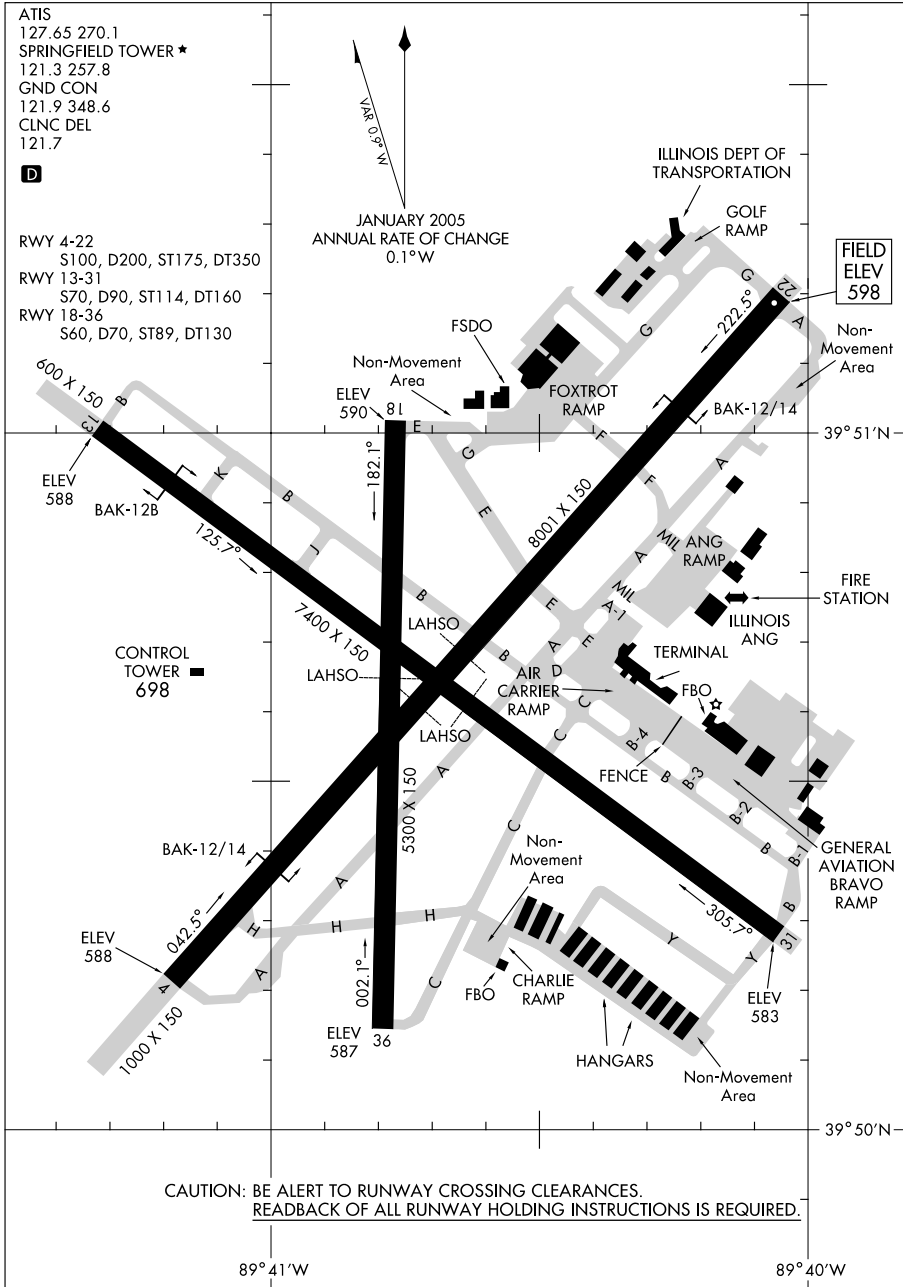
09351

## AIRPORT DIAGRAM

SPRINGFIELD/ABRAHAM LINCOLN CAPITAL (SPI)

AL-518 (FAA)

SPRINGFIELD, ILLINOIS



## AIRPORT DIAGRAM

09351

SPRINGFIELD, ILLINOIS  
SPRINGFIELD/ABRAHAM LINCOLN CAPITAL (SPI)



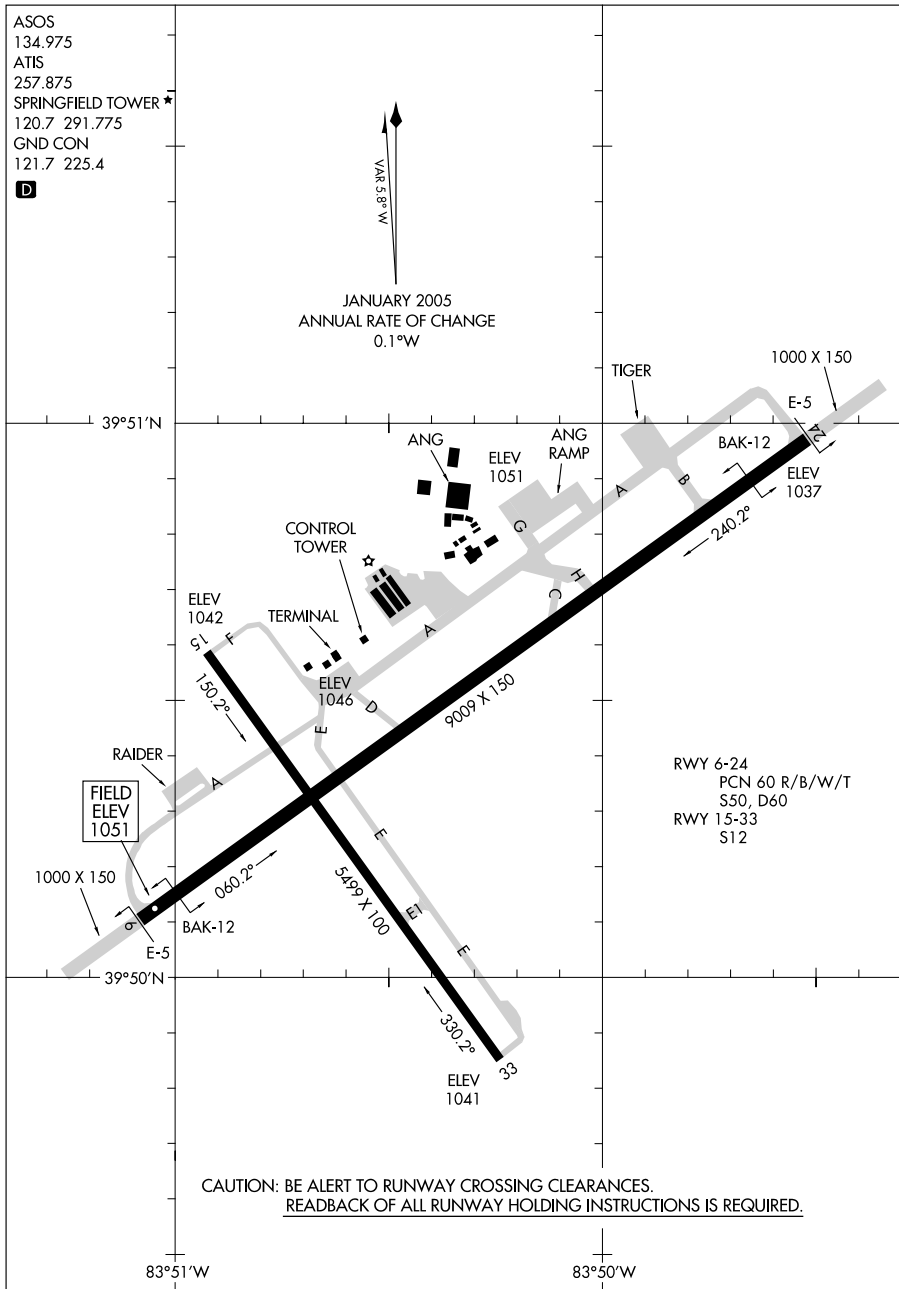
09295

## AIRPORT DIAGRAM

AL-958 (FAA)

SPRINGFIELD-BECKLEY MUNI (SGH)

SPRINGFIELD, OHIO



## AIRPORT DIAGRAM

09295

SPRINGFIELD, OHIO

SPRINGFIELD-BECKLEY MUNI (SGH)



TERRE HAUTE INTL-HULMAN FIELD (HUF)  
TERRE HAUTE, INDIANA







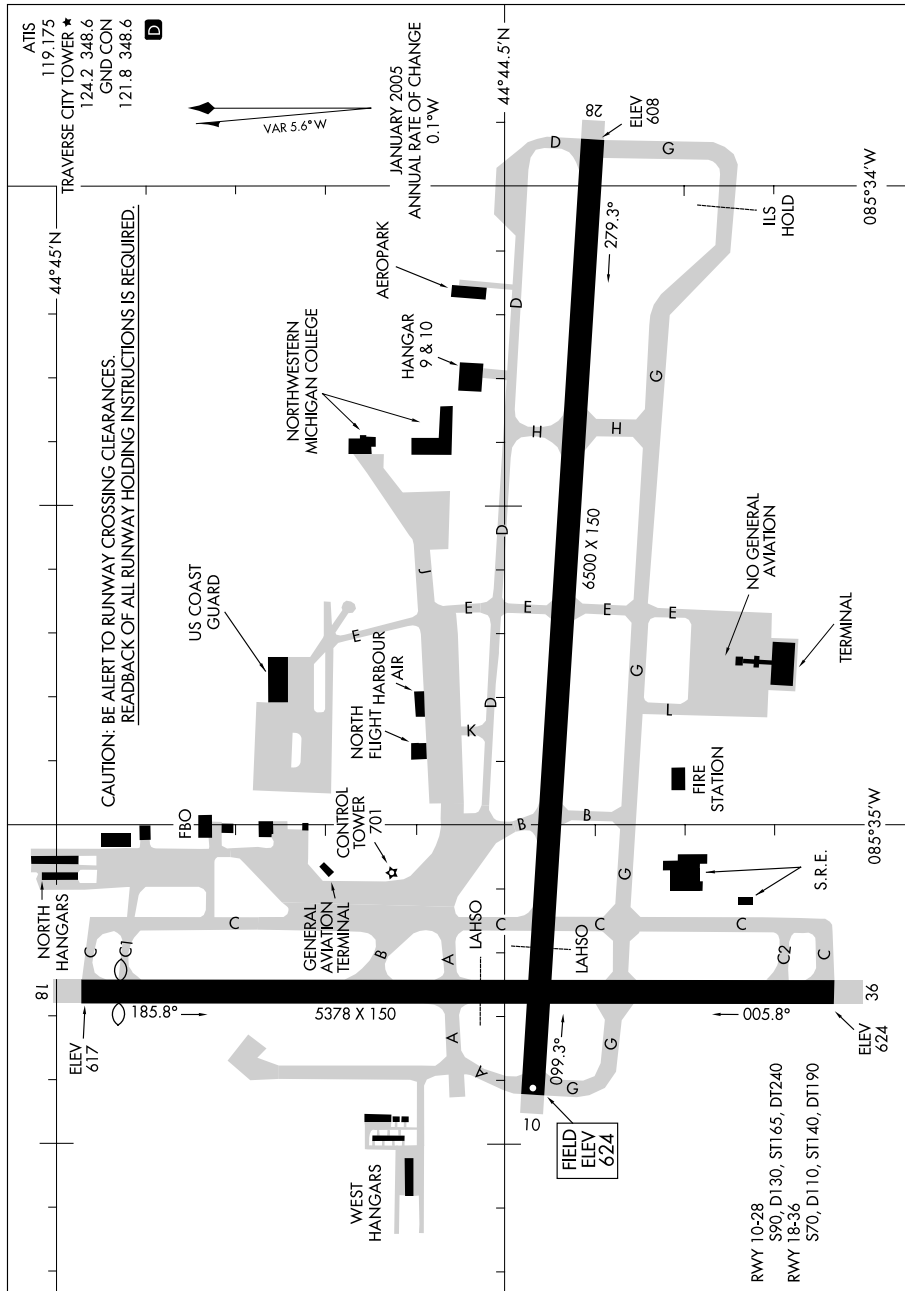


09239

# AIRPORT DIAGRAM

AL-425 (FAA)

TRAVERSE CITY / CHERRY CAPITAL (TVC)  
TRAVERSE CITY, MICHIGAN



## AIRPORT DIAGRAM

09239

TRAVERSE CITY, MICHIGAN  
TRAVERSE CITY / CHERRY CAPITAL (TVC)



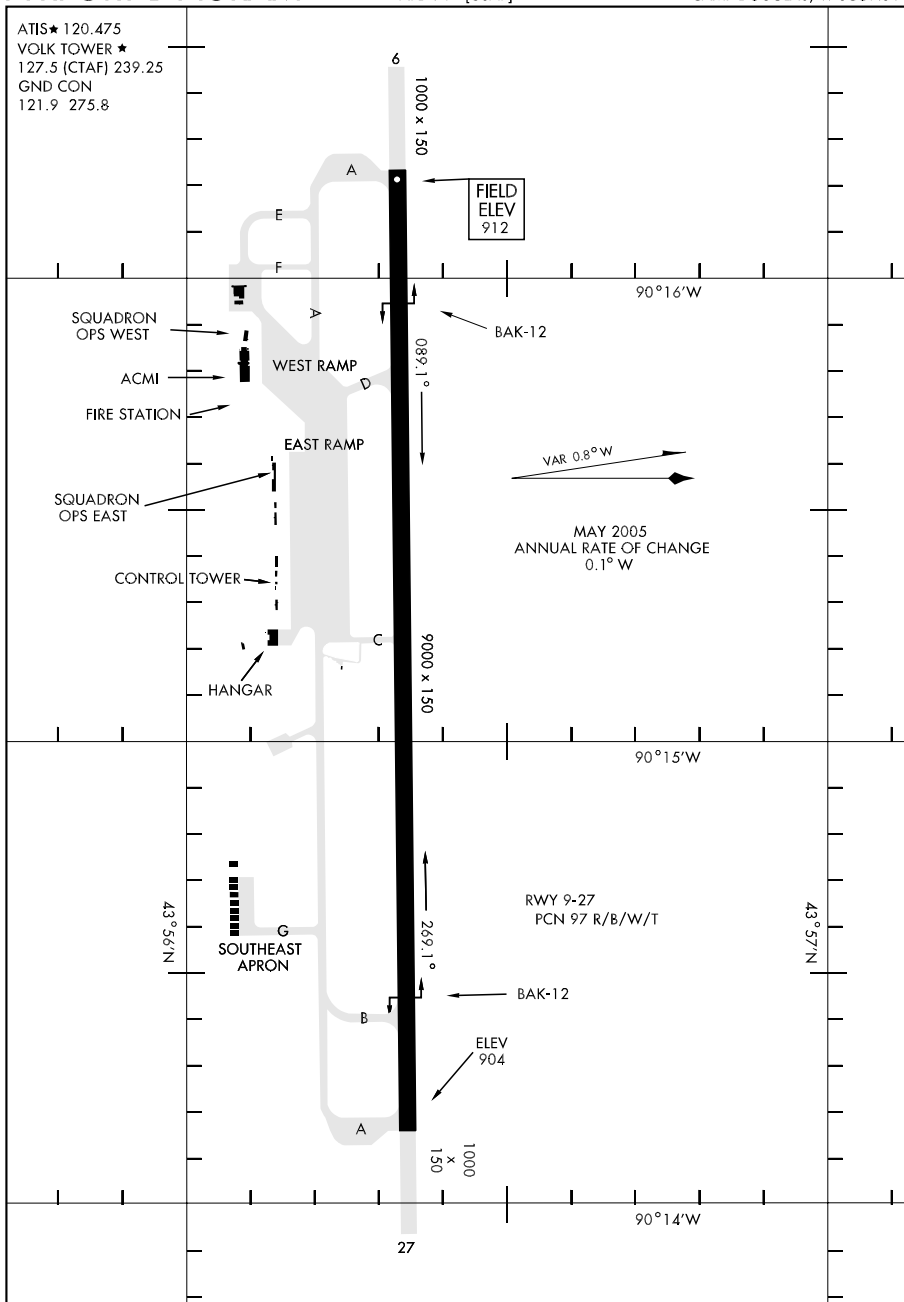
06271

## AIRPORT DIAGRAM

AFD-714 [USAF]

VOLK FIELD (VOK)

CAMP DOUGLAS, WISCONSIN



## AIRPORT DIAGRAM

WGS DATUM

CAMP DOUGLAS, WISCONSIN

VOLK FIELD (VOK)

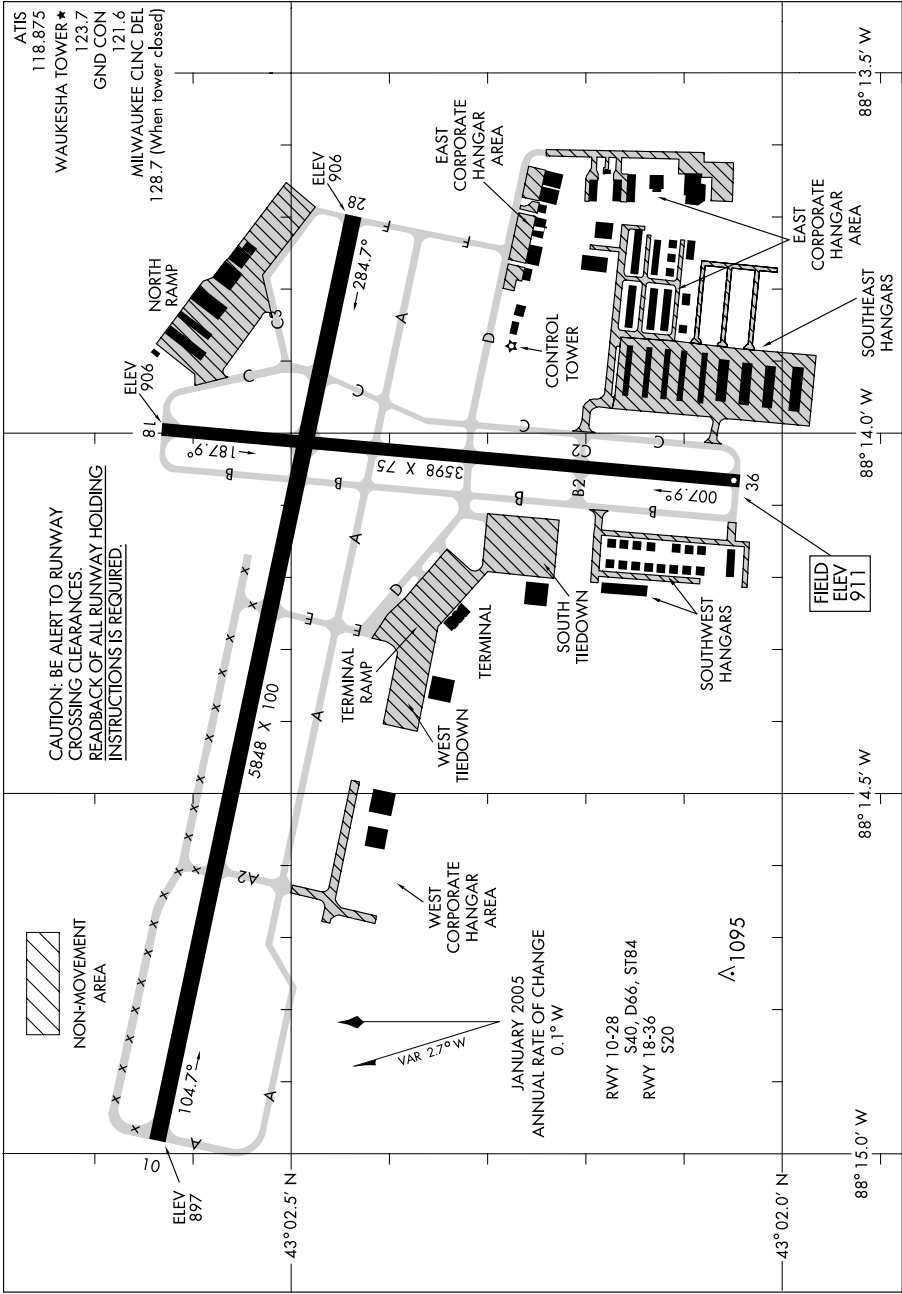


09127

AIRPORT DIAGRAM

AL-5078 (FAA)

WAUKESHA COUNTY (UES)  
WAUKESHA, WISCONSIN



AIRPORT DIAGRAM

09127

WAUKESHA, WISCONSIN  
WAUKESHA COUNTY (UES)



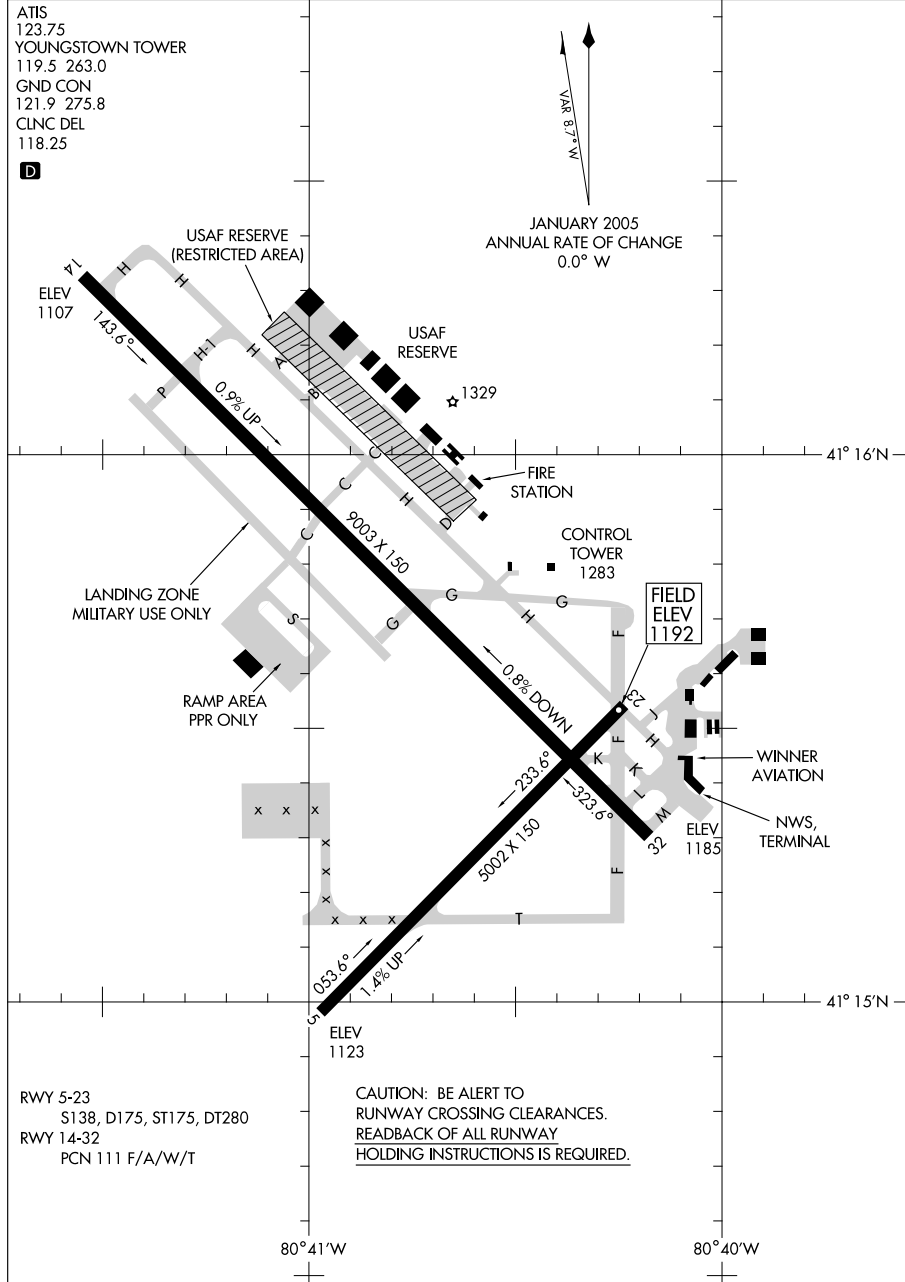




09295

## AIRPORT DIAGRAM

AL-466 (FAA)

YOUNGSTOWN-WARREN RGNL (YNG)  
YOUNGSTOWN-WARREN, OHIO

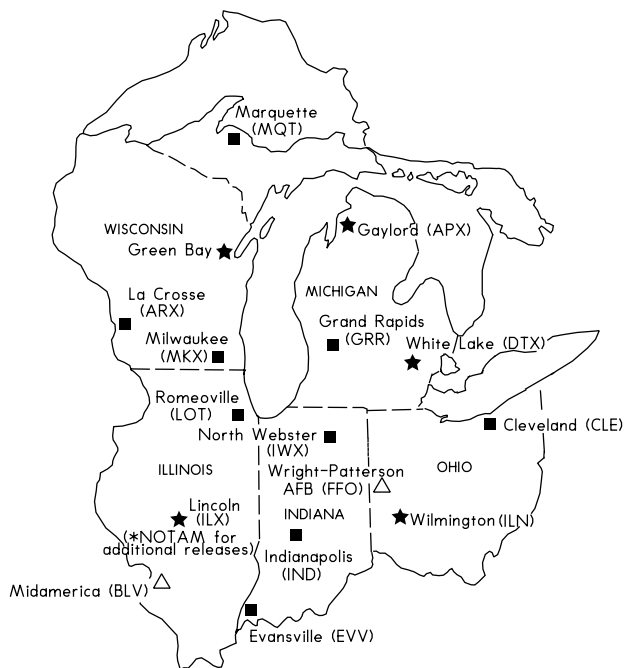
## AIRPORT DIAGRAM

09295

YOUNGSTOWN-WARREN, OHIO  
YOUNGSTOWN-WARREN RGNL (YNG)



NATIONAL WEATHER SERVICE (NWS)  
UPPER AIR OBSERVING STATION (UAOS)  
AND  
WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION  
HYDROGEN FILLED BALLOON RELEASES AROUND  
1100 UTC AND 2300 UTC DAILY/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASES AROUND 1100 UTC  
AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE  
TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE  
AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND  
FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED  
HOURS, AN AERONAUTICAL INFORMATION MESSAGE OR NOTAM\*  
WILL BE FILED.